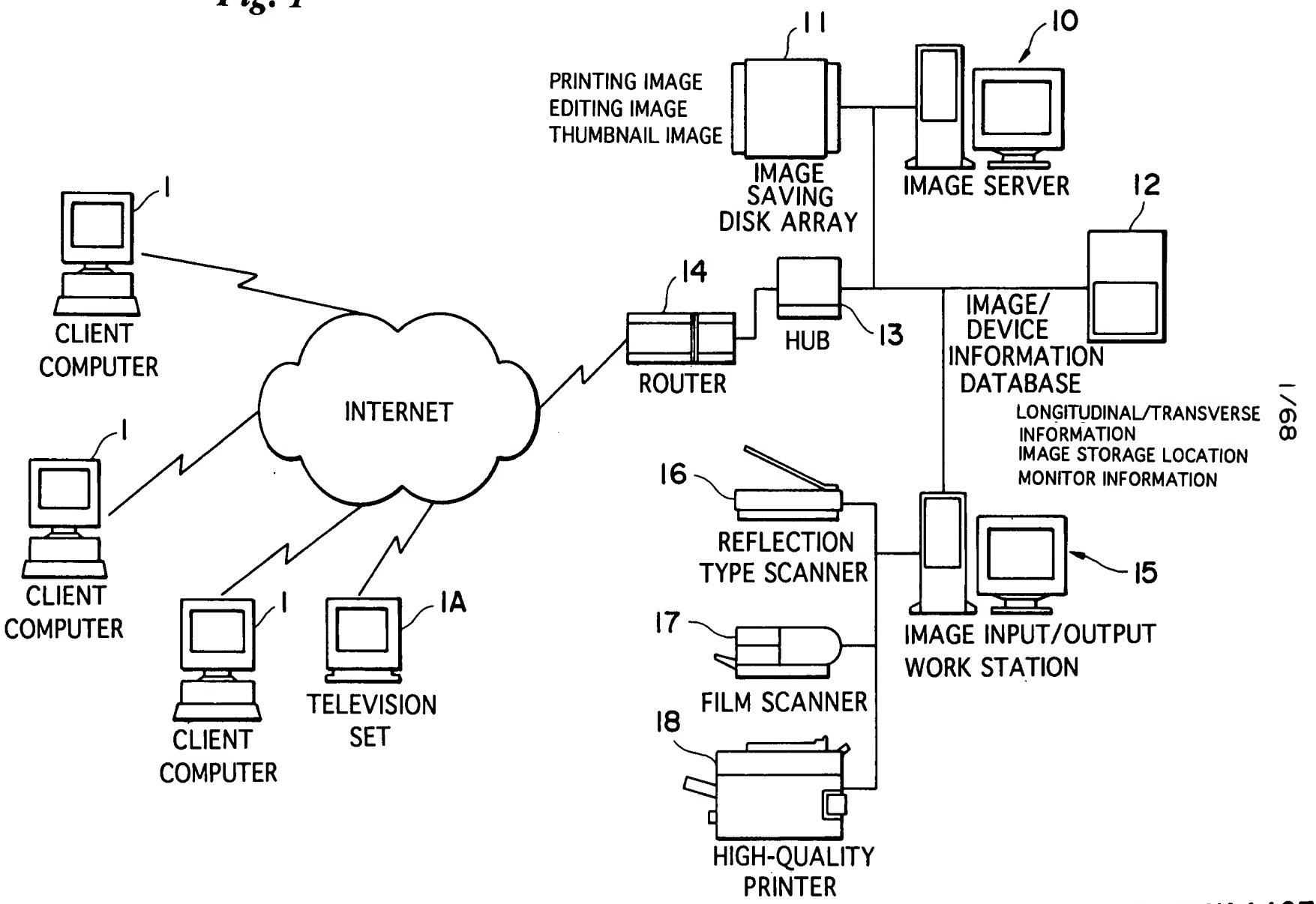
Fig. 1



BEST AVAILABLE COPY

Fig. 2

		WHITE POINT		STIMULUS VALUES OF PRIMARIES						γ CHARACTERISTICS
				RED		GREEN		BLUE		
I D	TYPE OF MONITOR	Xw	Yw	Xr	Yr	Xg	Yg	Xr	Yr	
0	S COMPANY	0.3127	0.329	0.625	0.34	0.28	0.595	0.155	0.07	TRANSFER FUNCTION[1]
1	M COMPANY	0.3127	0.329	0.64	0.33	0.3	0.6	0.15	0.06	TRANSFER FUNCTION[2]
2	N COMPANY	0.2092	0.4881	0.64	0.33	0.29	0.6	0.15	0.06	TRANSFER FUNCTION[3]
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	
i	STANDARD	0.3127	0.329	0.625	0.34	0.28	0.595	0.155	0.07	TRANSFER FUNCTION[i]

Fig. 3

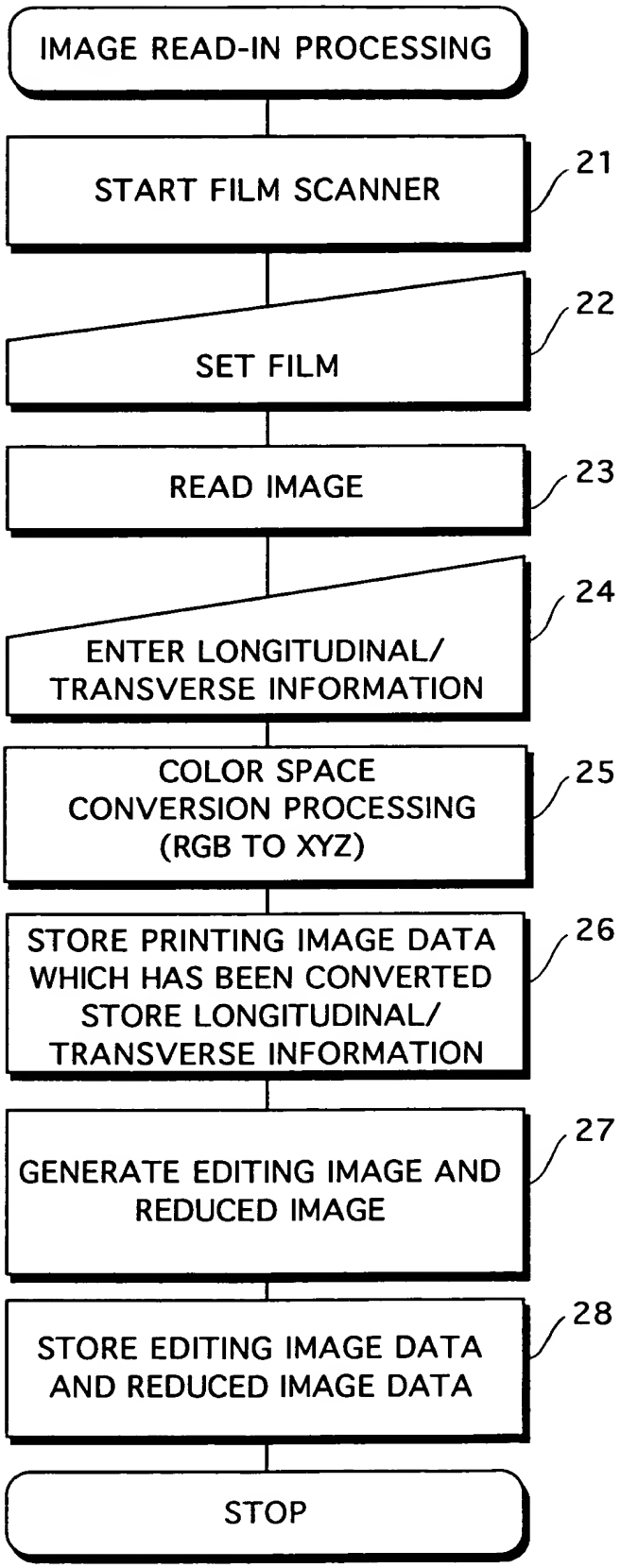
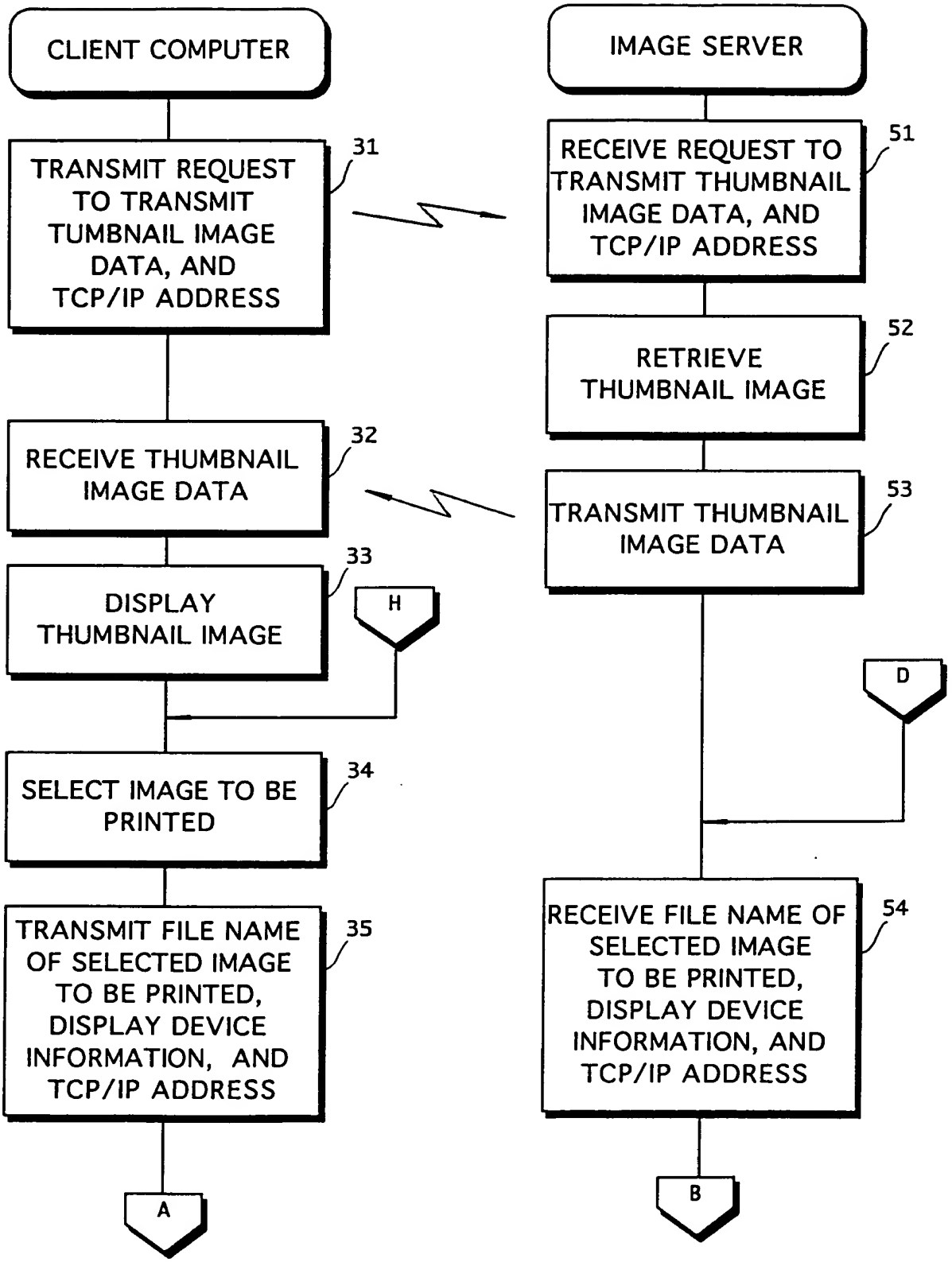


IMAGE READ-IN PROCESSING
START FILM SCANNER
21
SET FILM
22
READ IMAGE
23
ENTER LONGITUDINAL/ TRANSVERSE INFORMATION
24
COLOR SPACE CONVERSION PROCESSING (RGB TO XYZ)
25
STORE PRINTING IMAGE DATA WHICH HAS BEEN CONVERTED STORE LONGITUDINAL/ TRANSVERSE INFORMATION
26
GENERATE EDITING IMAGE AND REDUCED IMAGE
27
STORE EDITING IMAGE DATA AND REDUCED IMAGE DATA
28
STOP

Fig. 4


CLIENT COMPUTER
IMAGE SERVER
TRANSMIT REQUEST TO TRANSMIT TUMBNAIL IMAGE DATA, AND TCP/IP ADDRESS
31
RECEIVE REQUEST TO TRANSMIT THUMBNAIL IMAGE DATA, AND TCP/IP ADDRESS
51
RETRIEVE THUMBNAIL IMAGE
52
RECEIVE THUMBNAIL IMAGE DATA
32
TRANSMIT THUMBNAIL IMAGE DATA
53
DISPLAY THUMBNAIL IMAGE
33
H
D
SELECT IMAGE TO BE PRINTED
34
TRANSMIT FILE NAME OF SELECTED IMAGE TO BE PRINTED, DISPLAY DEVICE INFORMATION, AND TCP/IP ADDRESS
35
RECEIVE FILE NAME OF SELECTED IMAGE TO BE PRINTED, DISPLAY DEVICE INFORMATION, AND TCP/IP ADDRESS
54
A
B

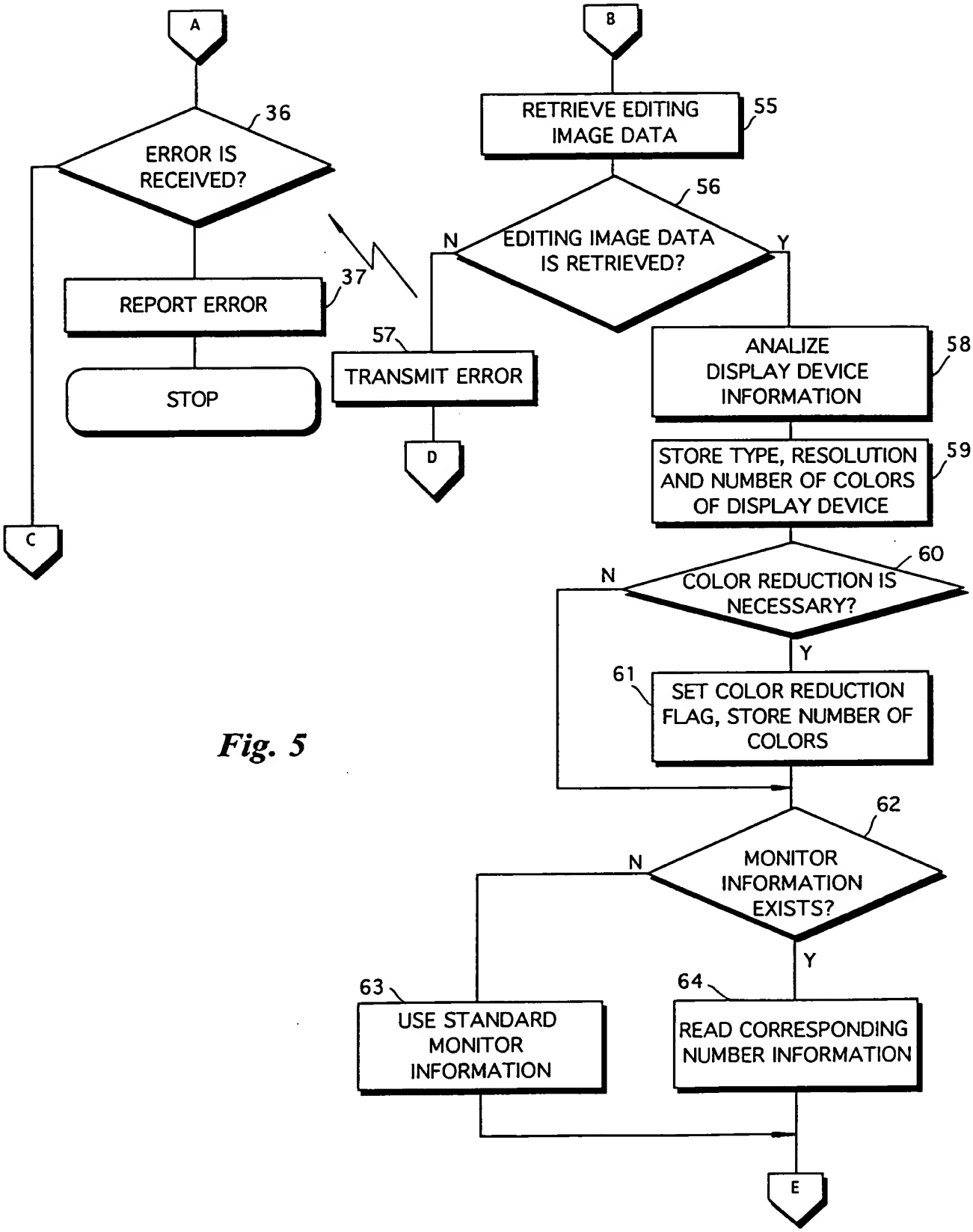
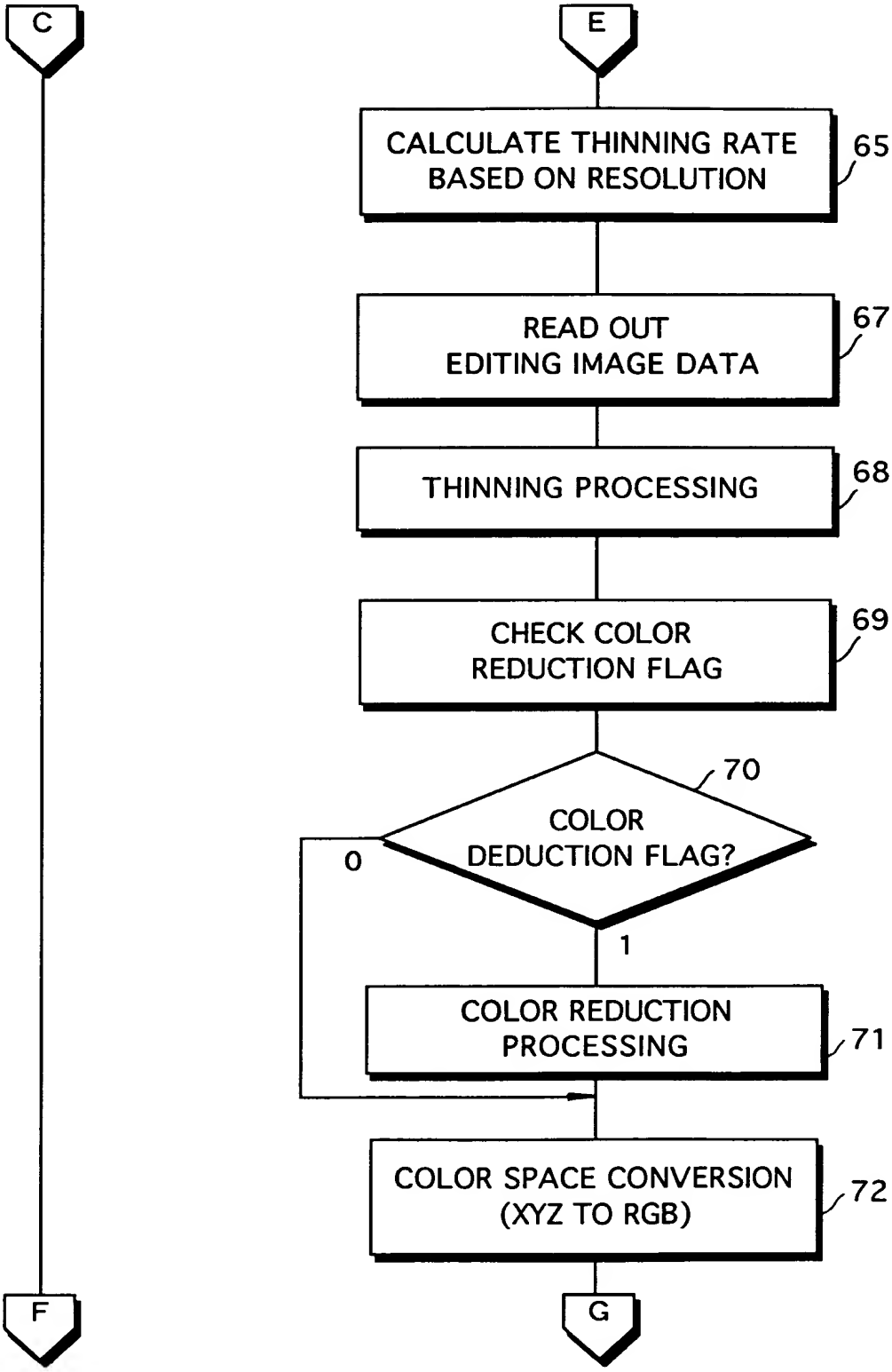

A
B
36
ERROR IS RECEIVED?
RETRIEVE EDITING IMAGE DATA
55
56
N
EDITING IMAGE DATA IS RETRIEVED?
Y
37
REPORT ERROR
57
TRANSMIT ERROR
58
ANALIZE DISPLAY DEVICE INFORMATION
STOP
D
59
STORE TYPE, RESOLUTION AND NUMBER OF COLORS OF DISPLAY DEVICE
C
60
N
COLOR REDUCTION IS NECESSARY?
Y
61
SET COLOR REDUCTION FLAG, STORE NUMBER OF COLORS
62
N
MONITOR INFORMATION EXISTS?
Y
63
USE STANDARD MONITOR INFORMATION
64
READ CORRESPONDING NUMBER INFORMATION
E

Fig. 5

Fig. 6


C
F
E
G
CALCULATE THINNING RATE BASED ON RESOLUTION
65
READ OUT EDITING IMAGE DATA
67
THINNING PROCESSING
68
CHECK COLOR REDUCTION FLAG
69
COLOR DEDUCTION FLAG?
70
0
1
COLOR REDUCTION PROCESSING
71
COLOR SPACE CONVERSION (XYZ TO RGB)
72

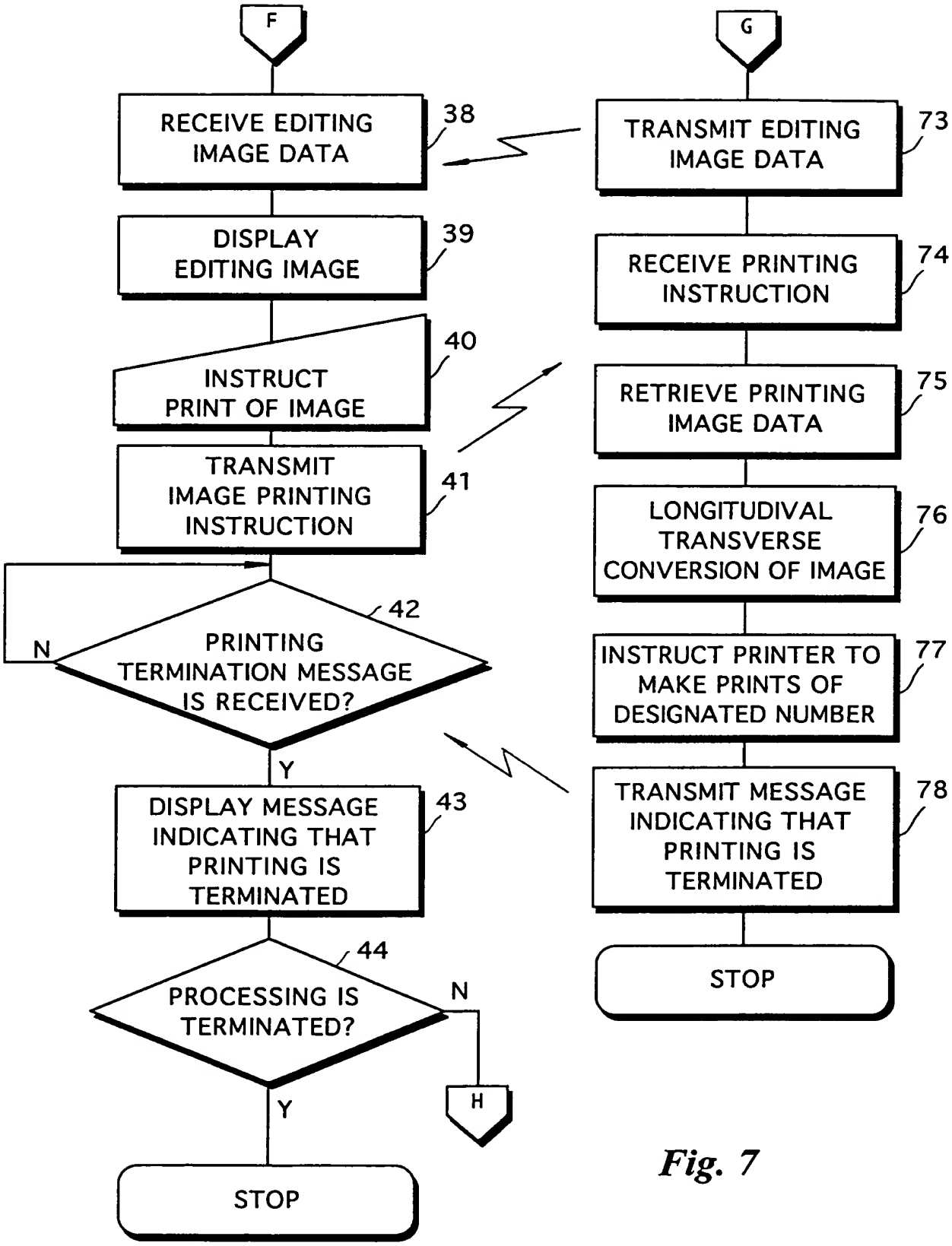

F
RECEIVE EDITING IMAGE DATA
38
DISPLAY EDITING IMAGE
39
INSTRUCT PRINT OF IMAGE
40
TRANSMIT IMAGE PRINTING INSTRUCTION
41
PRINTING TERMINATION MESSAGE IS RECEIVED?
42
N
Y
DISPLAY MESSAGE INDICATING THAT PRINTING IS TERMINATED
43
PROCESSING IS TERMINATED?
44
N
Y
H
STOP
G
TRANSMIT EDITING IMAGE DATA
73
RECEIVE PRINTING INSTRUCTION
74
RETRIEVE PRINTING IMAGE DATA
75
LONGITUDIVAL TRANSVERSE CONVERSION OF IMAGE
76
INSTRUCT PRINTER TO MAKE PRINTS OF DESIGNATED NUMBER
77
TRANSMIT MESSAGE INDICATING THAT PRINTING IS TERMINATED
78
STOP

Fig. 7

Fig. 8

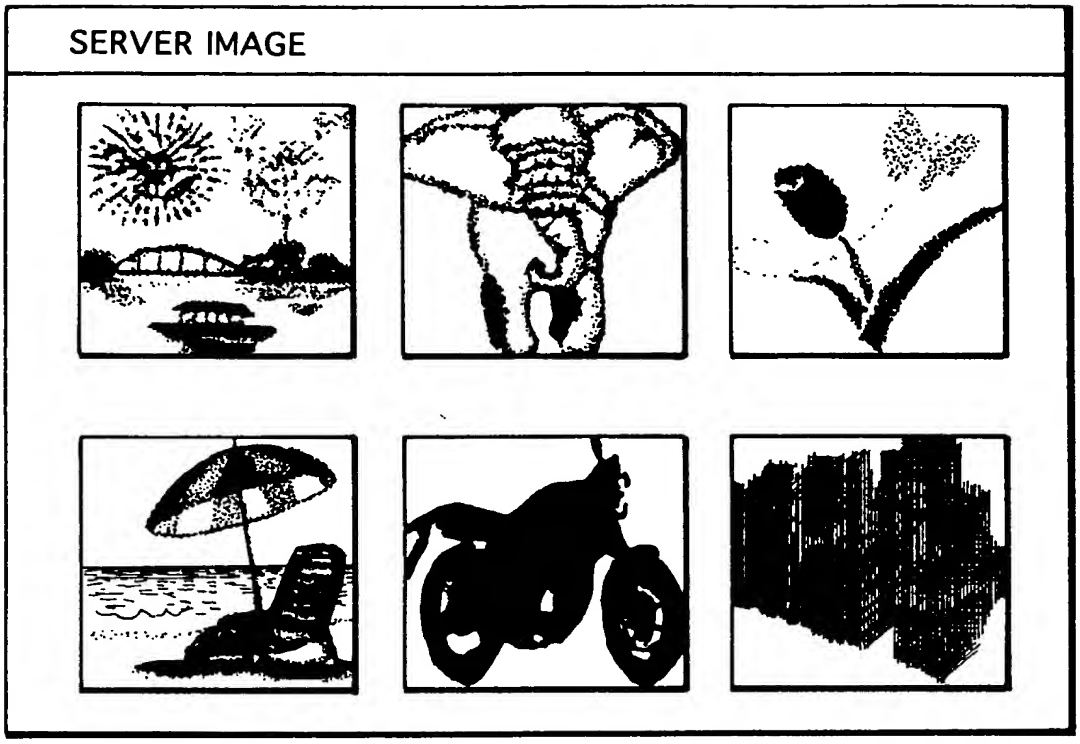


Fig. 9

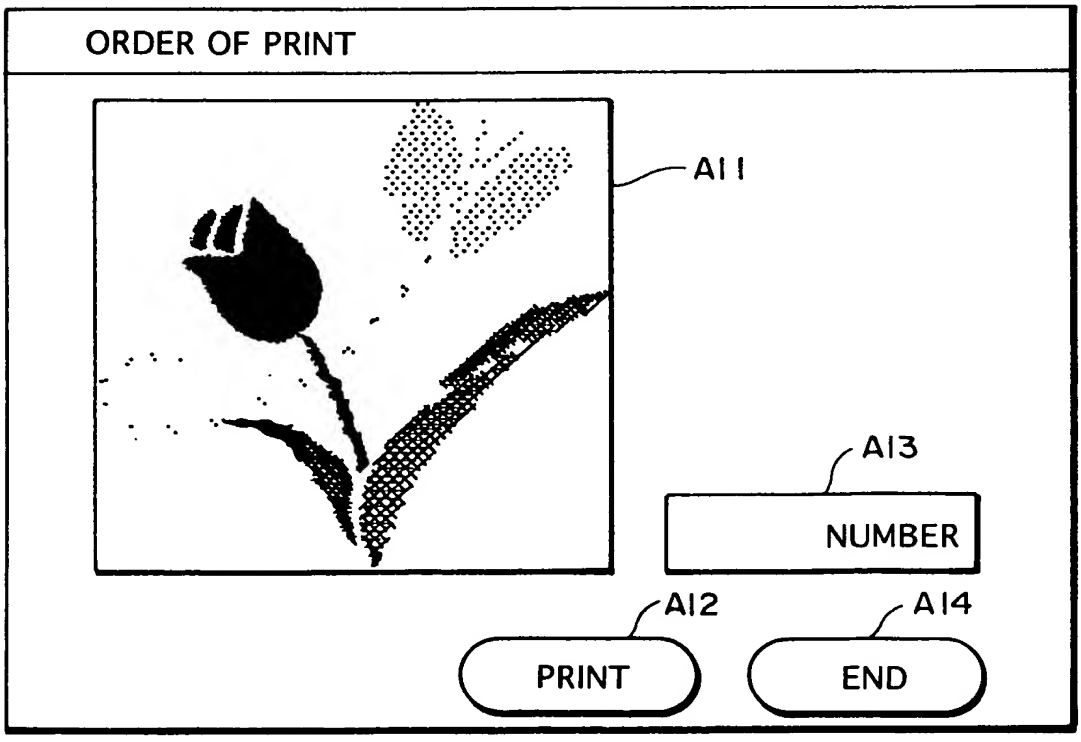
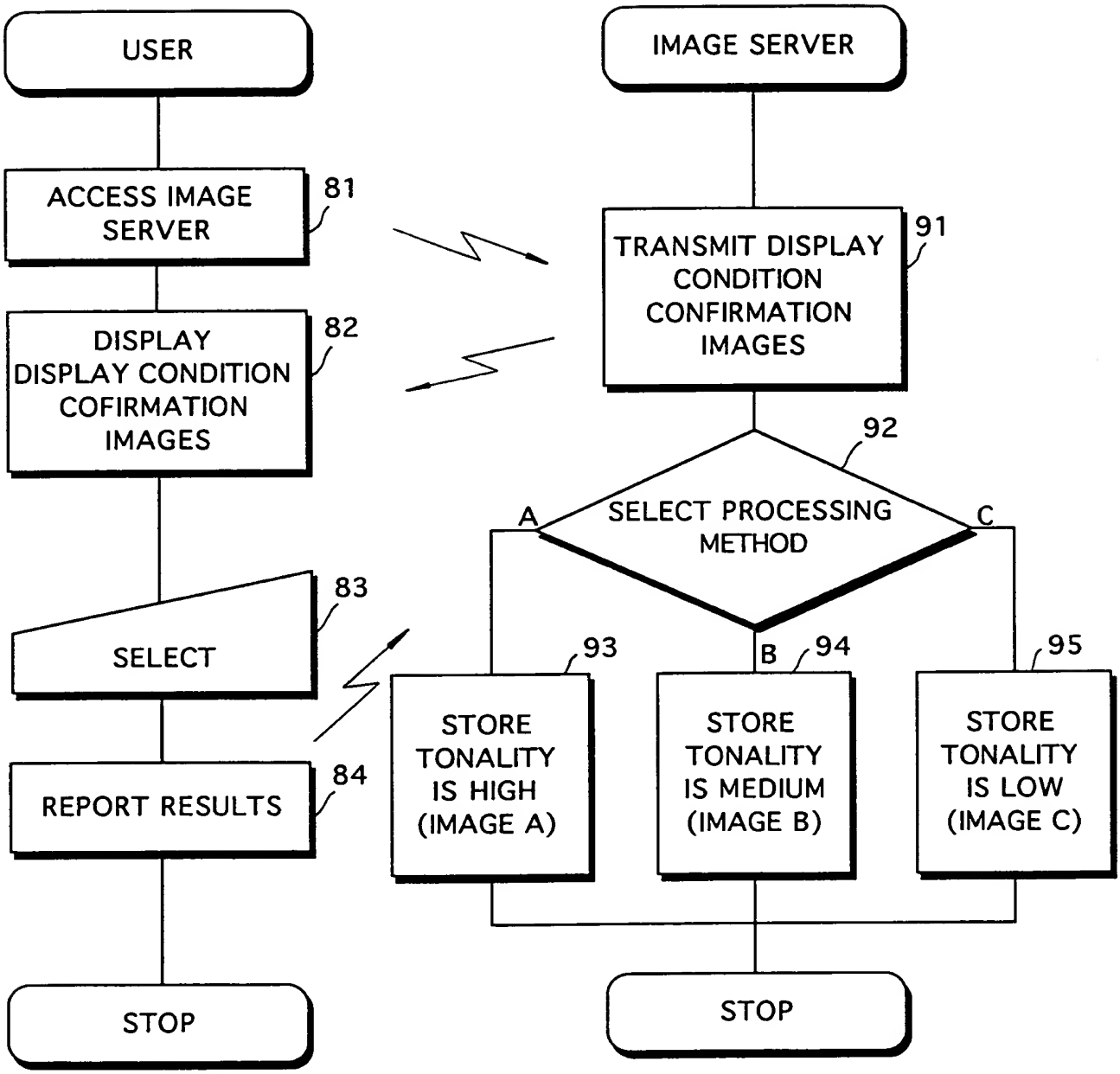


Fig. 10


USER
IMAGE SERVER
ACCESS IMAGE SERVER
81
TRANSMIT DISPLAY CONDITION CONFIRMATION IMAGES
91
DISPLAY DISPLAY CONDITION COFIRMATION IMAGES
82
92
A
SELECT PROCESSING METHOD
C
83
SELECT
93
B
94
95
STORE TONALITY IS HIGH (IMAGE A)
STORE TONALITY IS MEDIUM (IMAGE B)
STORE TONALITY IS LOW (IMAGE C)
84
REPORT RESULTS
STOP
STOP

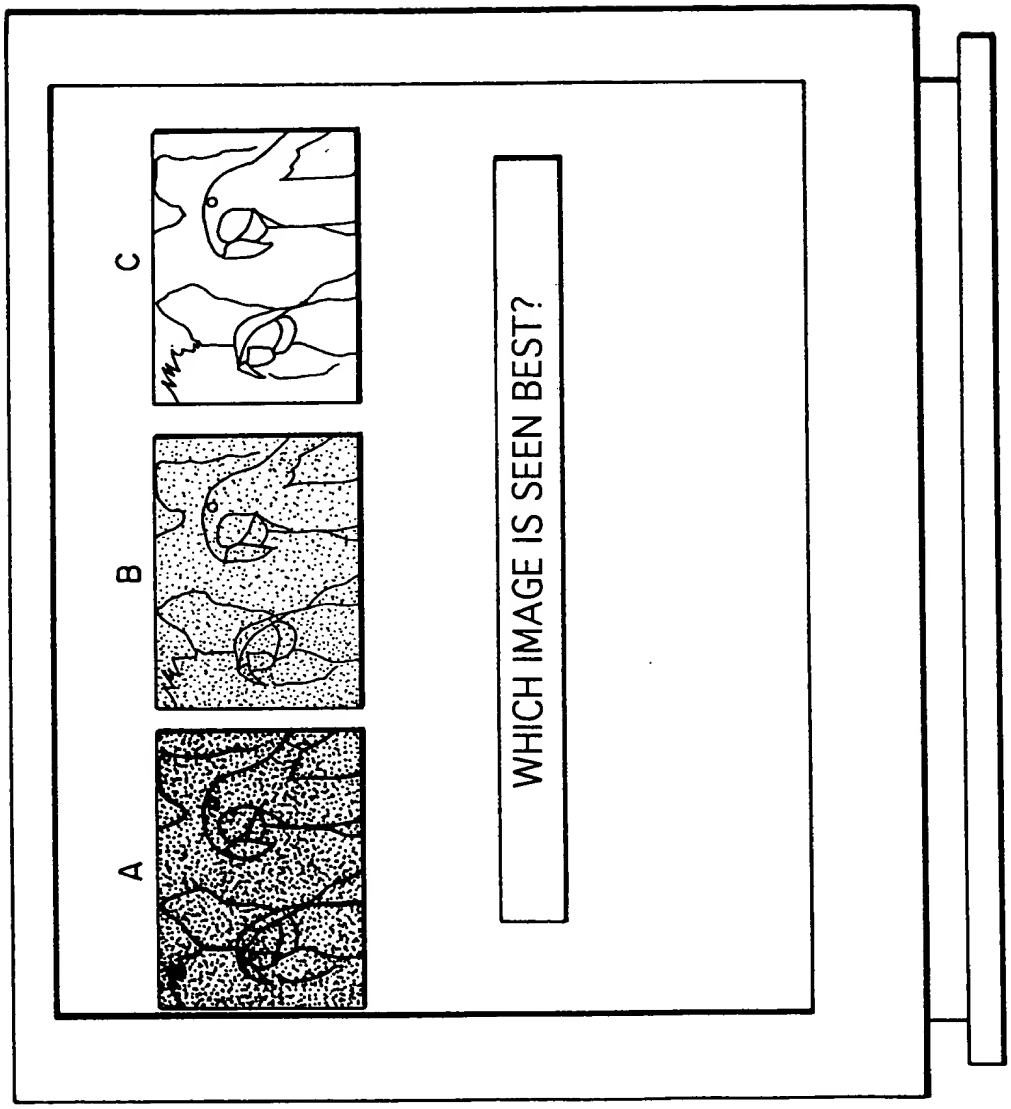


Fig. 11

Fig. 12

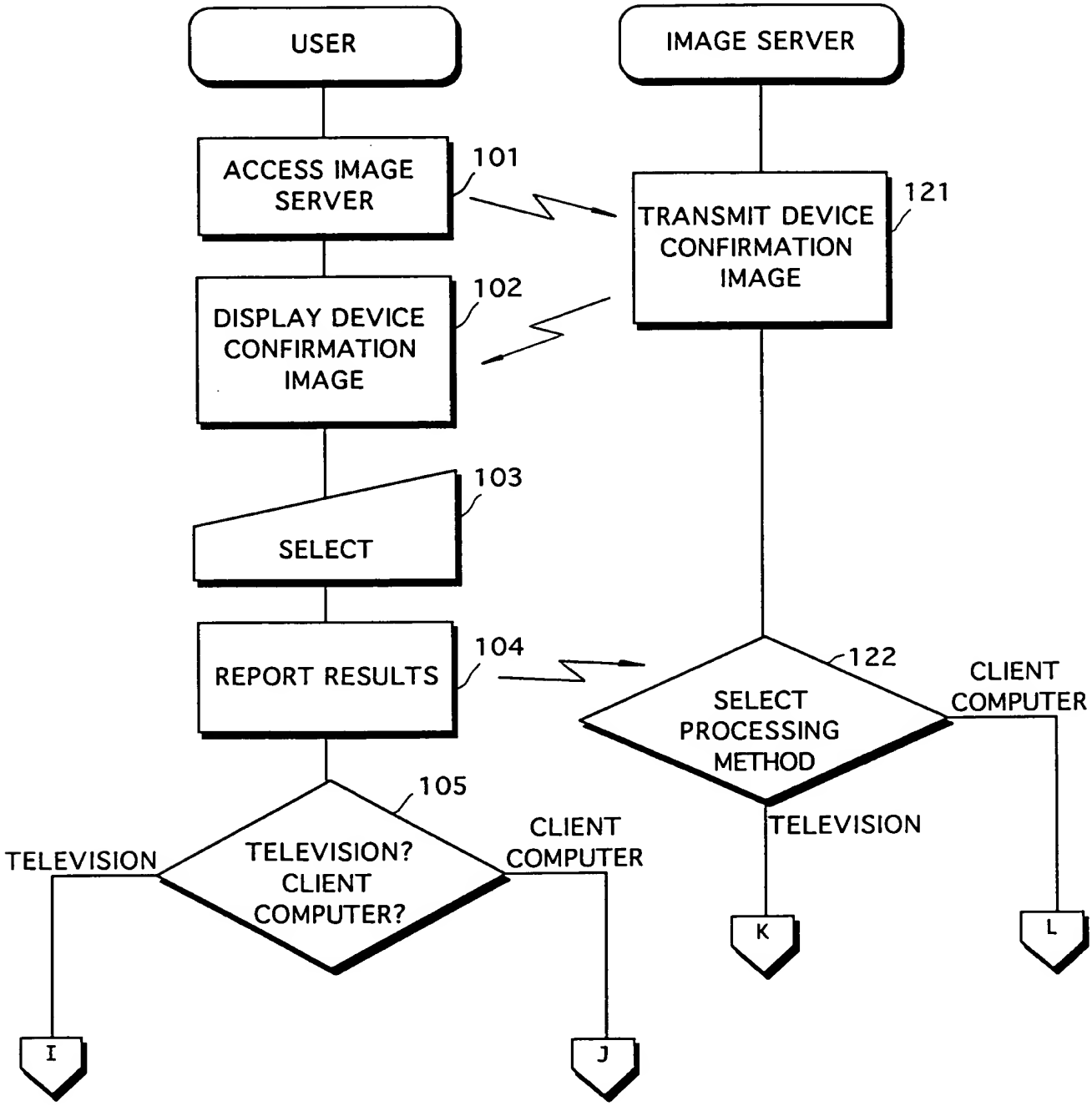

USER
IMAGE SERVER
ACCESS IMAGE SERVER
101
TRANSMIT DEVICE CONFIRMATION IMAGE
121
DISPLAY DEVICE CONFIRMATION IMAGE
102
SELECT
103
REPORT RESULTS
104
SELECT PROCESSING METHOD
122
CLIENT COMPUTER
TELEVISION
TELEVISION? CLIENT COMPUTER?
105
TELEVISION
CLIENT COMPUTER
I
J
K
L

Fig. 13

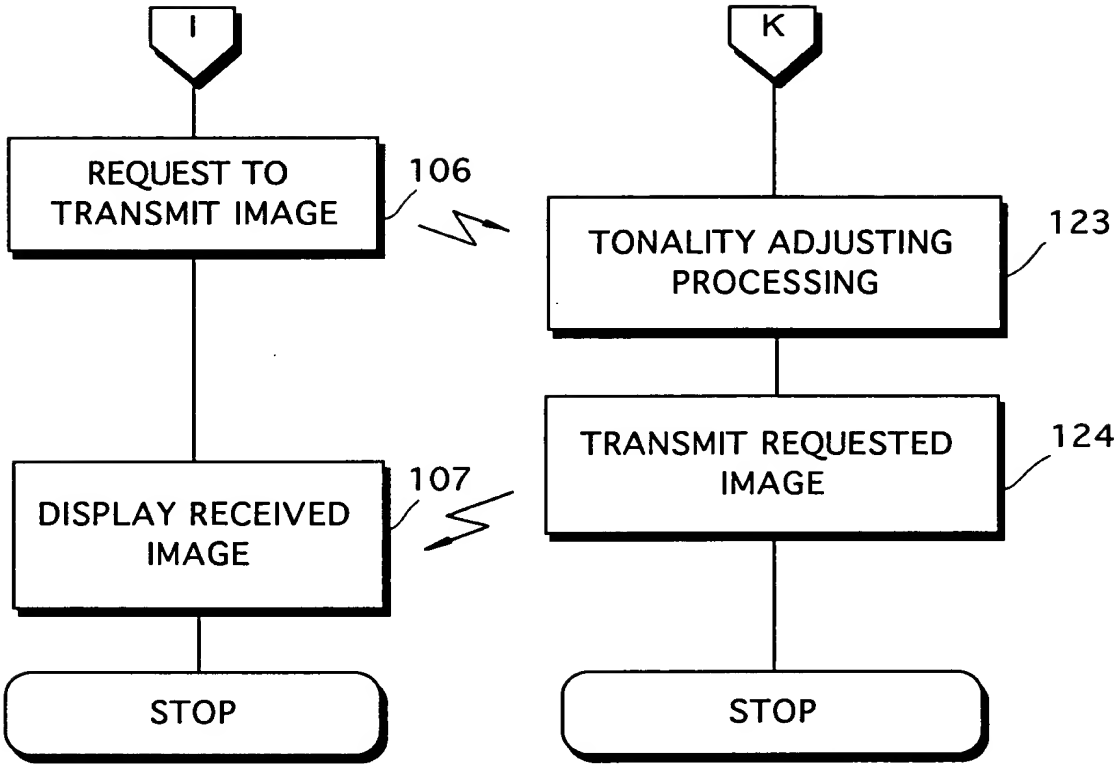
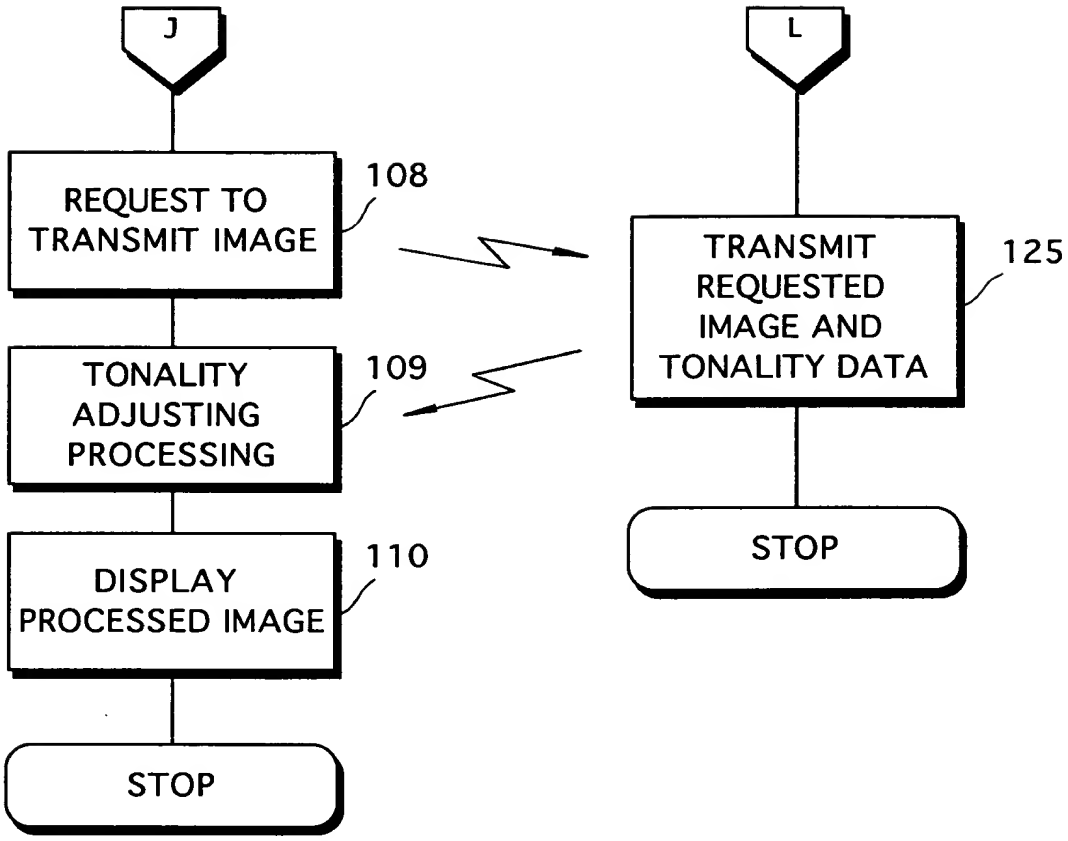

I
REQUEST TO TRANSMIT IMAGE
106
DISPLAY RECEIVED IMAGE
107
STOP
K
TONALITY ADJUSTING PROCESSING
123
TRANSMIT REQUESTED IMAGE
124
STOP

Fig. 14


J
REQUEST TO TRANSMIT IMAGE
108
TONALITY ADJUSTING PROCESSING
109
DISPLAY PROCESSED IMAGE
110
STOP
L
TRANSMIT REQUESTED IMAGE AND TONALITY DATA
125
STOP

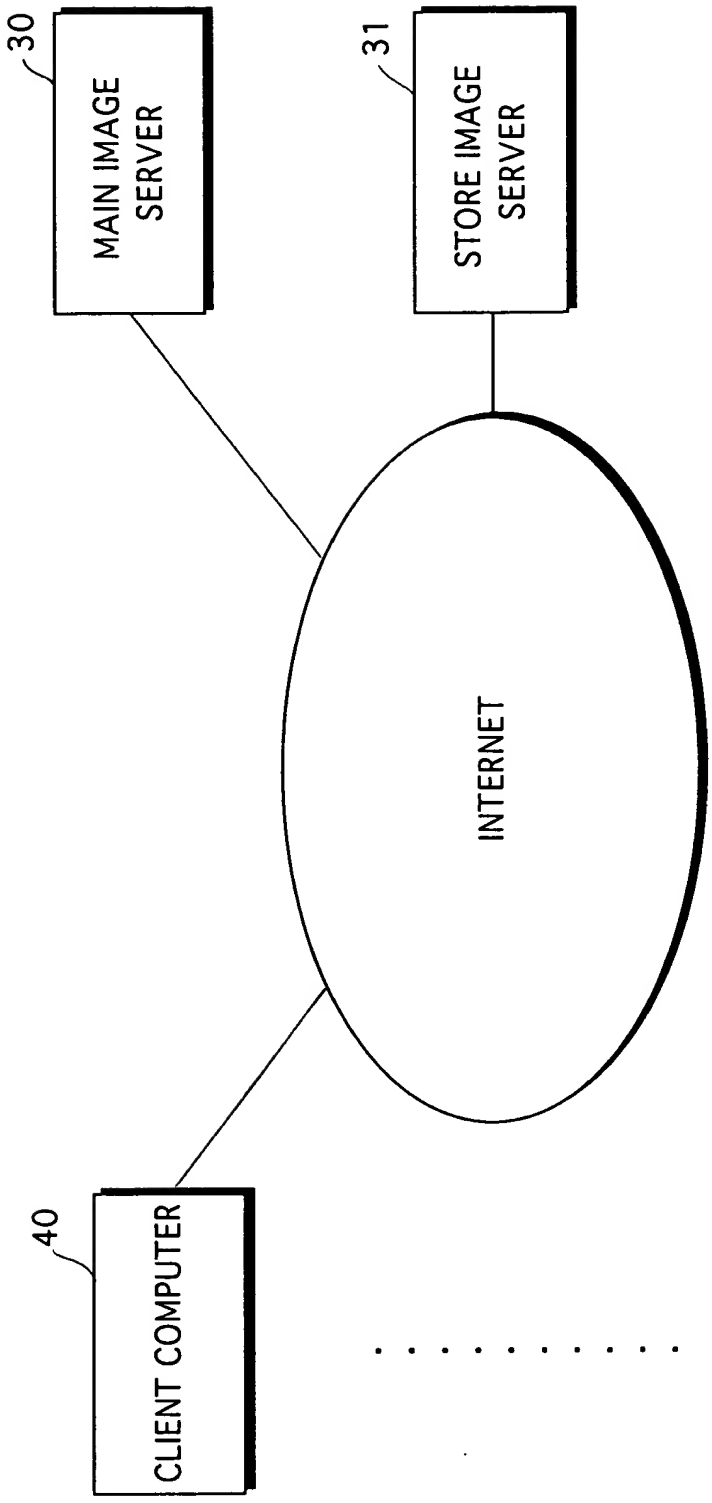

30
MAIN IMAGE SERVER
31
STORE IMAGE SERVER
INTERNET
40
CLIENT COMPUTER

Fig. 15

Fig. 16

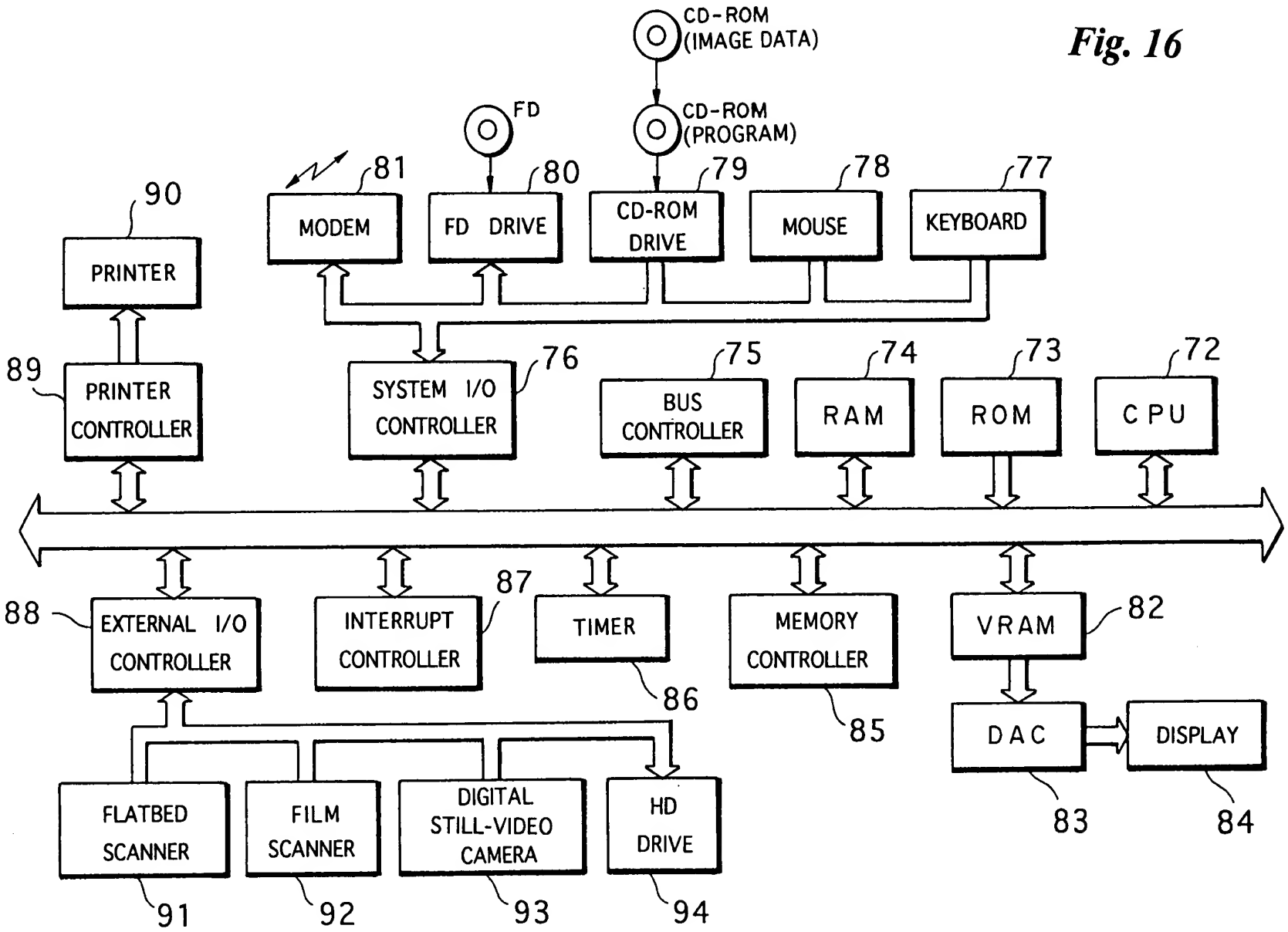

CD-ROM (IMAGE DATA)
FD
CD-ROM (PROGRAM)
81
80
79
78
77
90
MODEM
FD DRIVE
CD-ROM DRIVE
MOUSE
KEYBOARD
PRINTER
89
PRINTER CONTROLLER
SYSTEM I/O CONTROLLER
76
75
74
73
72
BUS CONTROLLER
RAM
ROM
CPU
88
EXTERNAL I/O CONTROLLER
INTERRUPT CONTROLLER
87
TIMER
MEMORY CONTROLLER
VRAM
82
86
85
DAC
DISPLAY
FLATBED SCANNER
FILM SCANNER
DIGITAL STILL-VIDEO CAMERA
HD DRIVE
83
84
91
92
93
94

Fig. 17

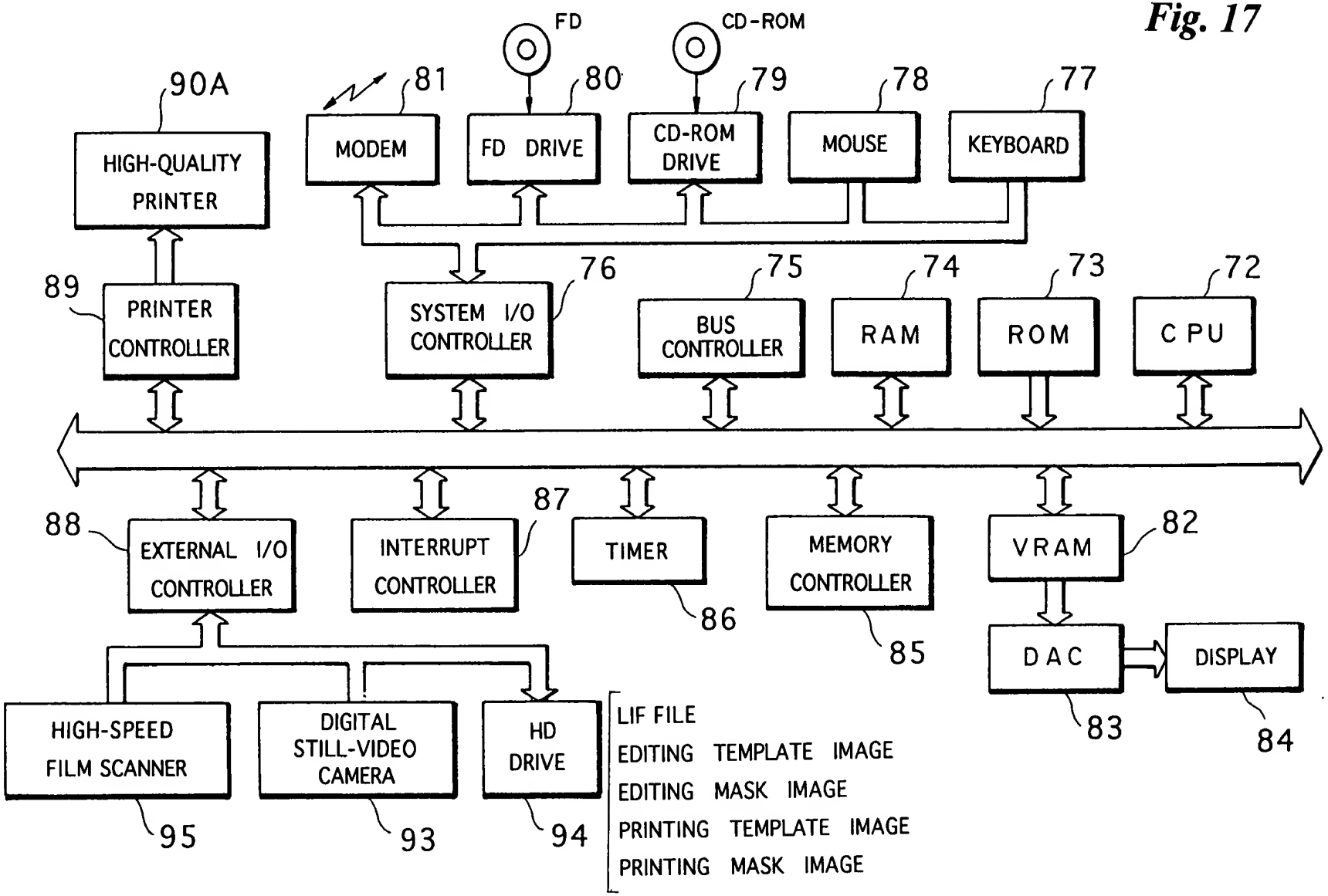

FD
CD-ROM
90A
81
80
79
78
77
HIGH-QUALITY PRINTER
MODEM
FD DRIVE
CD-ROM DRIVE
MOUSE
KEYBOARD
89
76
75
74
73
72
PRINTER CONTROLLER
SYSTEM I/O CONTROLLER
BUS CONTROLLER
RAM
ROM
C P U
88
87
82
EXTERNAL I/O CONTROLLER
INTERRUPT CONTROLLER
TIMER
MEMORY CONTROLLER
VRAM
86
85
D A C
DISPLAY
83
84
HIGH-SPEED FILM SCANNER
DIGITAL STILL-VIDEO CAMERA
HD DRIVE
95
93
94
LIF FILE
EDITING TEMPLATE IMAGE
EDITING MASK IMAGE
PRINTING TEMPLATE IMAGE
PRINTING MASK IMAGE

Fig. 18

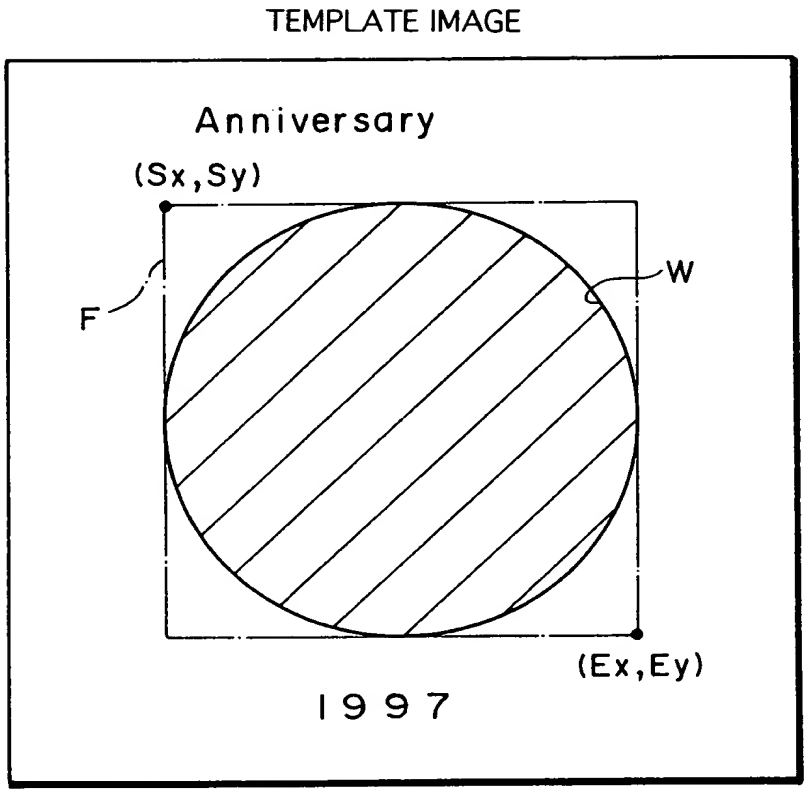


Fig. 19

[TEMPLATE]
Etemplate = "http: //templateServer/EdtTemp1.jpg" (LOCATION OF EDITING TEMPLATE IMAGE)
Emask = "http: //templateServer/EdtMask1.jpg" (LOCATION OF EDITING MASK IMAGE)
Ptemplate = "http: //templateServer/PrtTemp1.jpg"(LOCATION OF PRINTING TEMPLATE IMAGE)
Pmask = "http: //templateServer/PrtMask1.jpg"(LOCATION OF PRINTING MASK IMAGE)

[WINDOW AREA DATA]
SY = 0.2
EX = 0.8
EY = 0.8
SX = 0.2

[ASPECT RATIO]
asp = 1.0

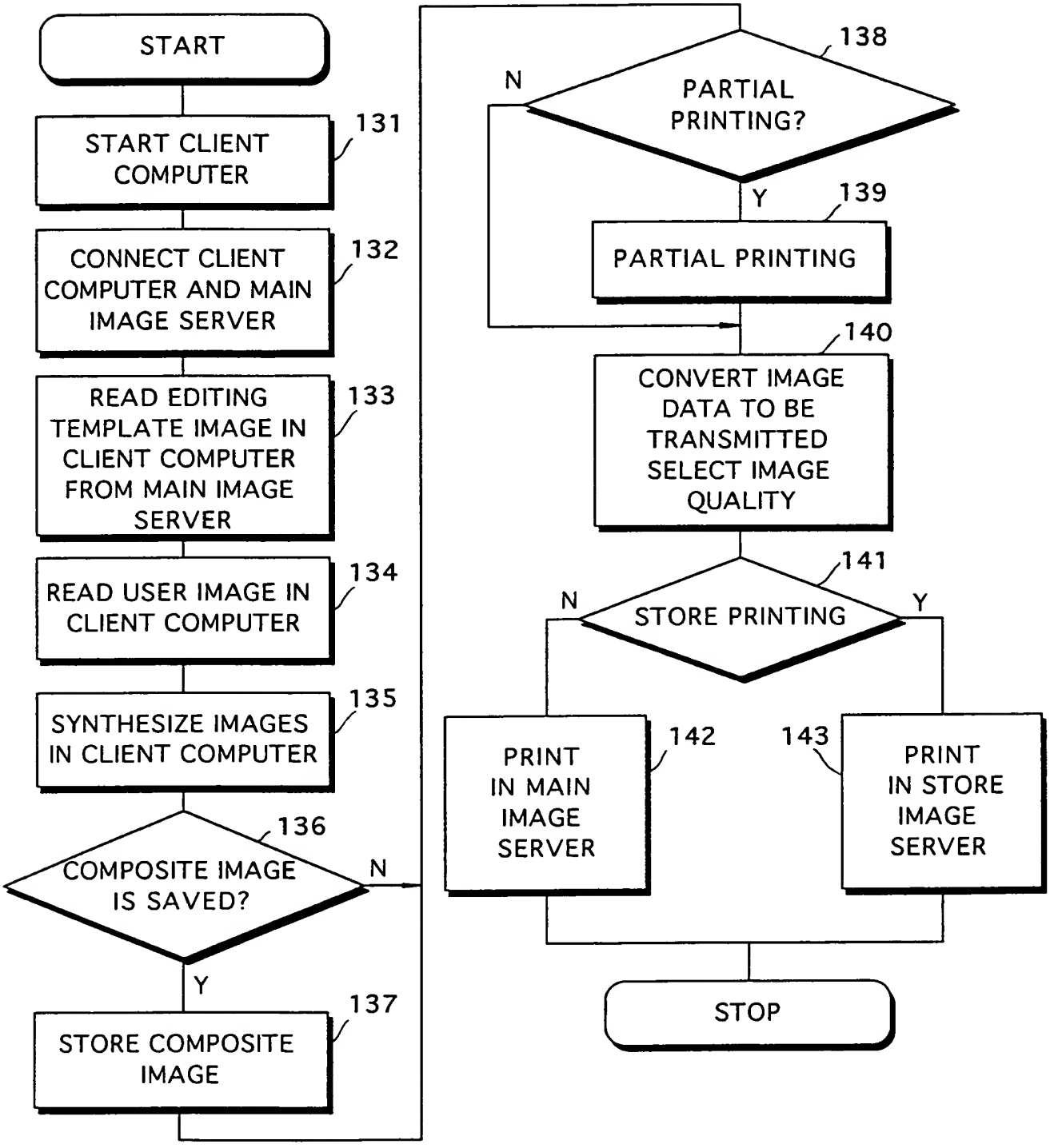

START
START CLIENT COMPUTER
131
CONNECT CLIENT COMPUTER AND MAIN IMAGE SERVER
132
READ EDITING TEMPLATE IMAGE IN CLIENT COMPUTER FROM MAIN IMAGE SERVER
133
READ USER IMAGE IN CLIENT COMPUTER
134
SYNTHESIZE IMAGES IN CLIENT COMPUTER
135
136
COMPOSITE IMAGE IS SAVED?
N
Y
137
STORE COMPOSITE IMAGE
138
N
PARTIAL PRINTING?
Y
139
PARTIAL PRINTING
140
CONVERT IMAGE DATA TO BE TRANSMITTED SELECT IMAGE QUALITY
141
N
STORE PRINTING
Y
142
PRINT IN MAIN IMAGE SERVER
143
PRINT IN STORE IMAGE SERVER
STOP

Fig. 20

TRANSMISSION / RECEIVING
OF TEMPLATE IMAGE
AND MASK IMAGE

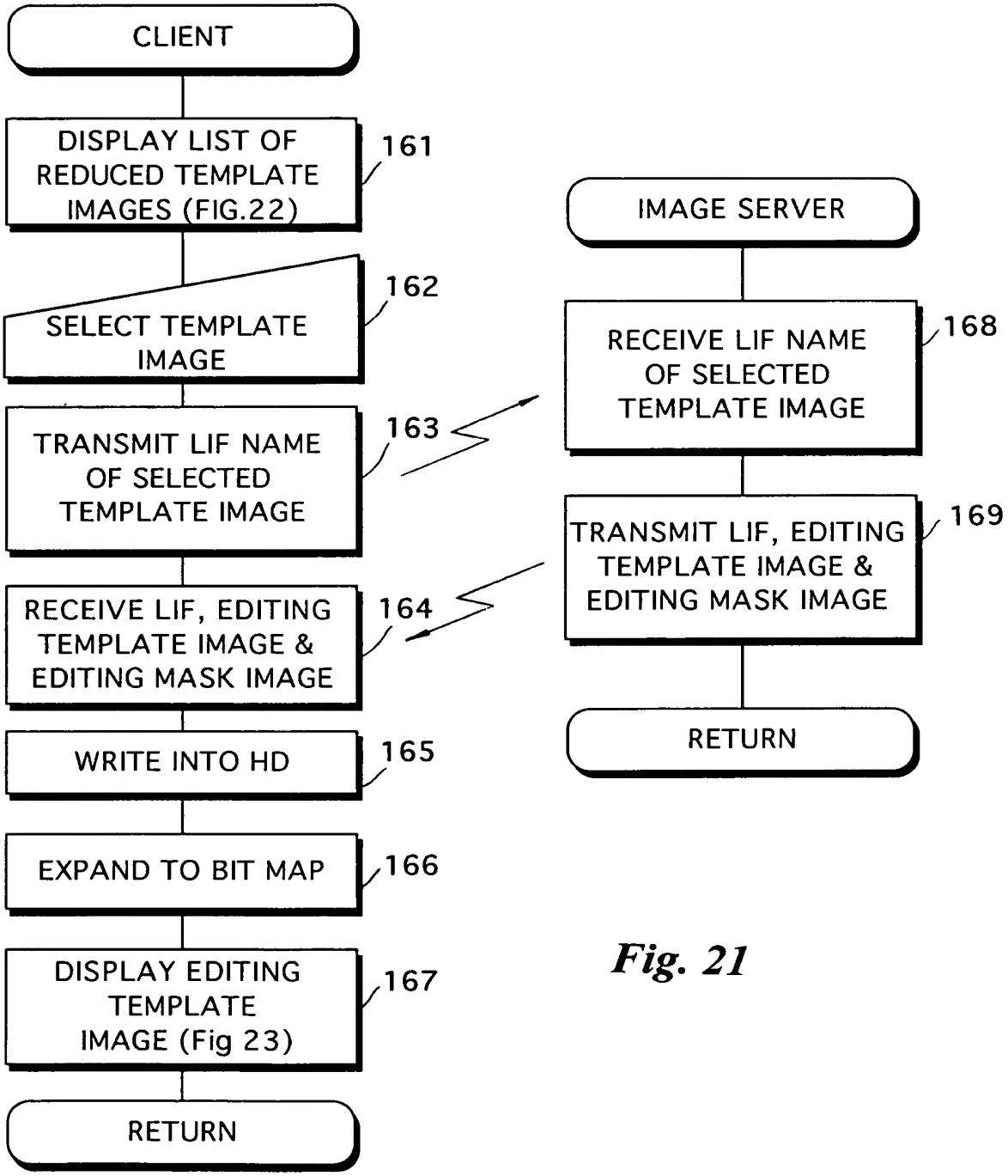


Fig. 21

Fig. 22

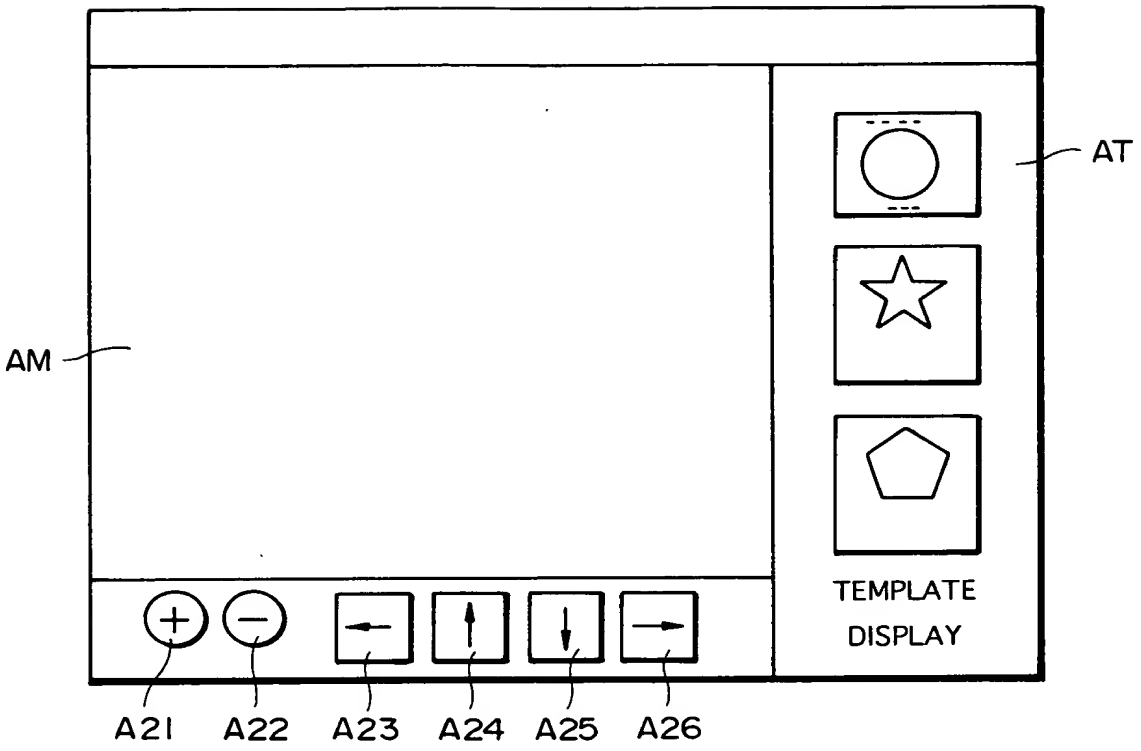

AT
AM
TEMPLATE
DISPLAY
A21
A22
A23
A24
A25
A26

Fig. 23

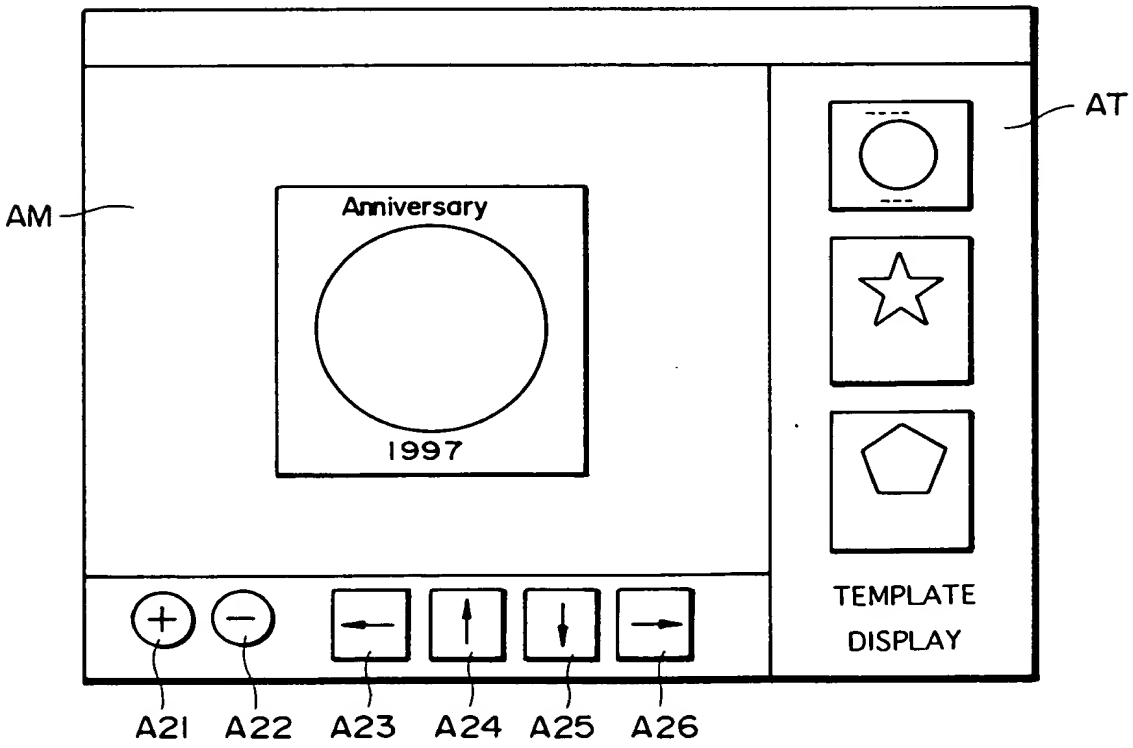
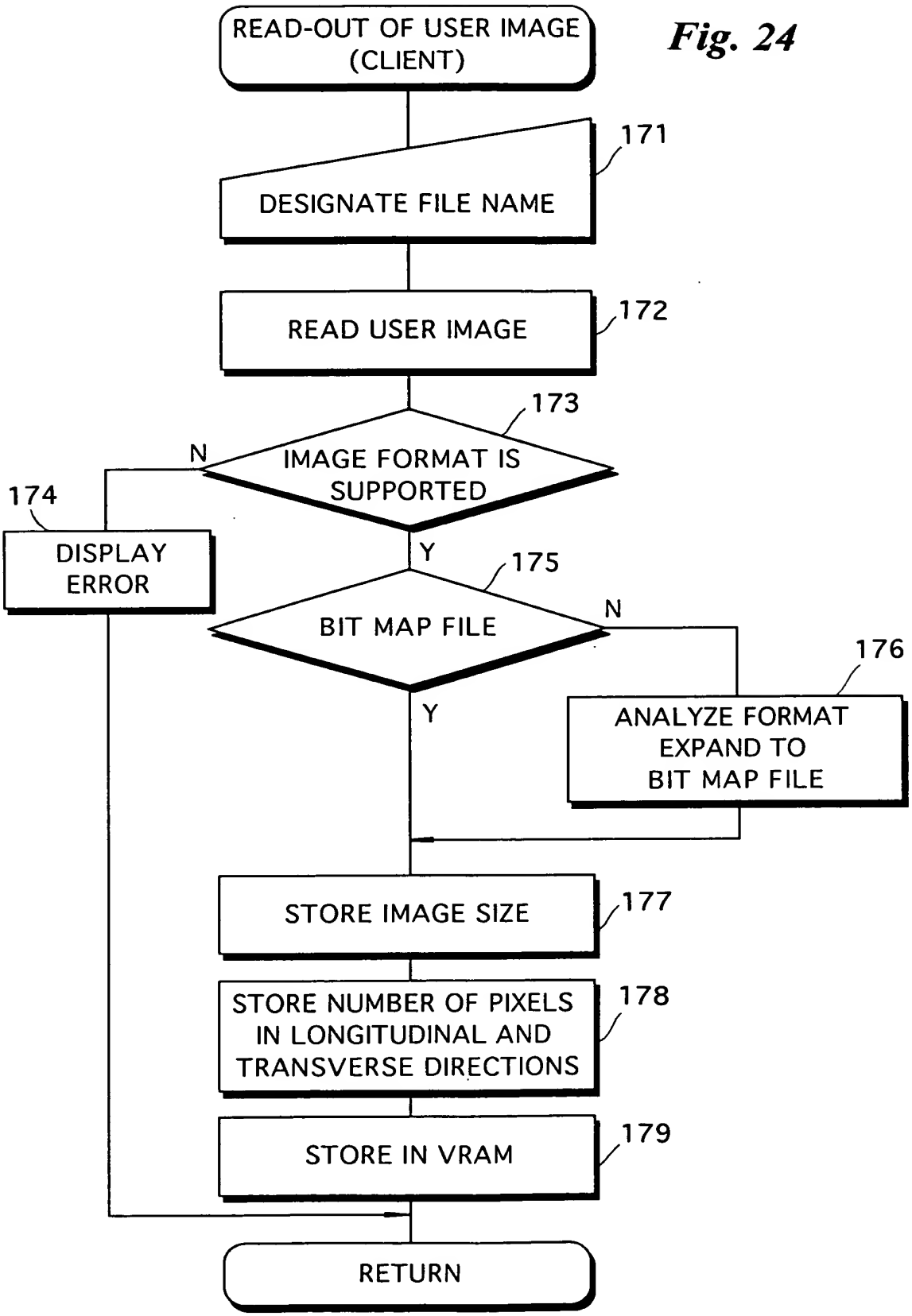

AT
AM
Anniversary
1997
TEMPLATE
DISPLAY
A21
A22
A23
A24
A25
A26

Fig. 24


READ-OUT OF USER IMAGE (CLIENT)
171
DESIGNATE FILE NAME
172
READ USER IMAGE
173
IMAGE FORMAT IS SUPPORTED
N
174
DISPLAY ERROR
Y
175
BIT MAP FILE
N
176
ANALYZE FORMAT EXPAND TO BIT MAP FILE
Y
177
STORE IMAGE SIZE
178
STORE NUMBER OF PIXELS IN LONGITUDINAL AND TRANSVERSE DIRECTIONS
179
STORE IN VRAM
RETURN

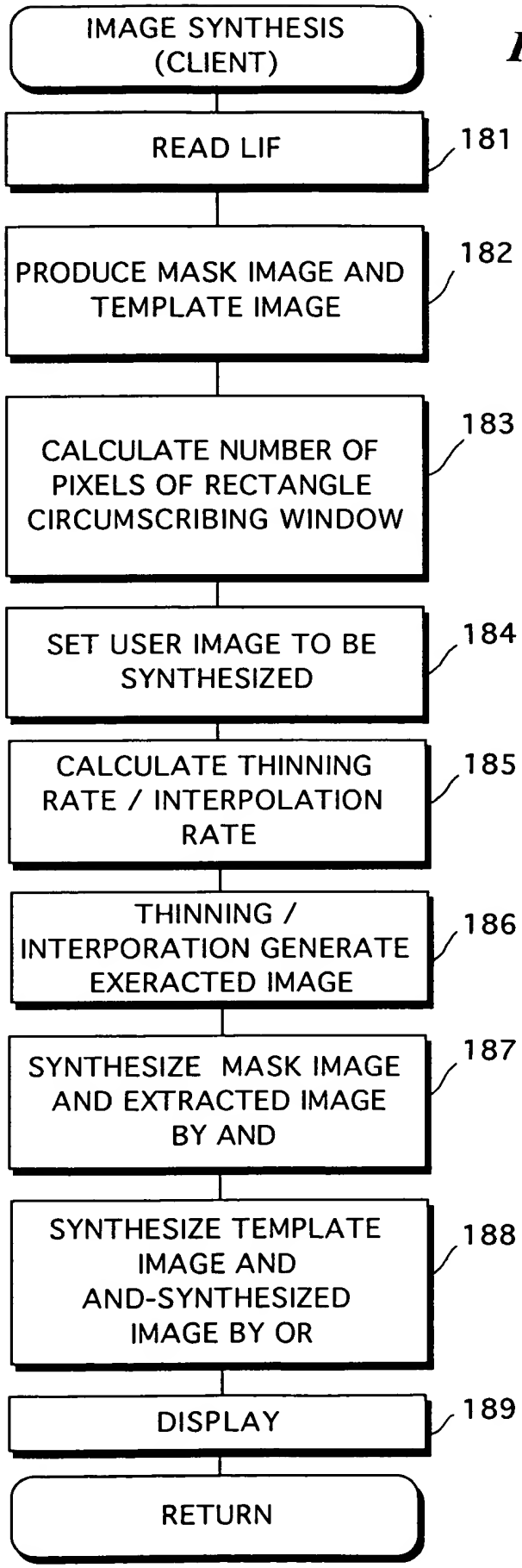


IMAGE SYNTHESIS (CLIENT)
READ LIF
181
PRODUCE MASK IMAGE AND TEMPLATE IMAGE
182
CALCULATE NUMBER OF PIXELS OF RECTANGLE CIRCUMSCRIBING WINDOW
183
SET USER IMAGE TO BE SYNTHESIZED
184
CALCULATE THINNING RATE / INTERPOLATION RATE
185
THINNING / INTERPORATION GENERATE EXERACTED IMAGE
186
SYNTHESIZE MASK IMAGE AND EXTRACTED IMAGE BY AND
187
SYNTHESIZE TEMPLATE IMAGE AND AND-SYNTHESIZED IMAGE BY OR
188
DISPLAY
189
RETURN

Fig. 25

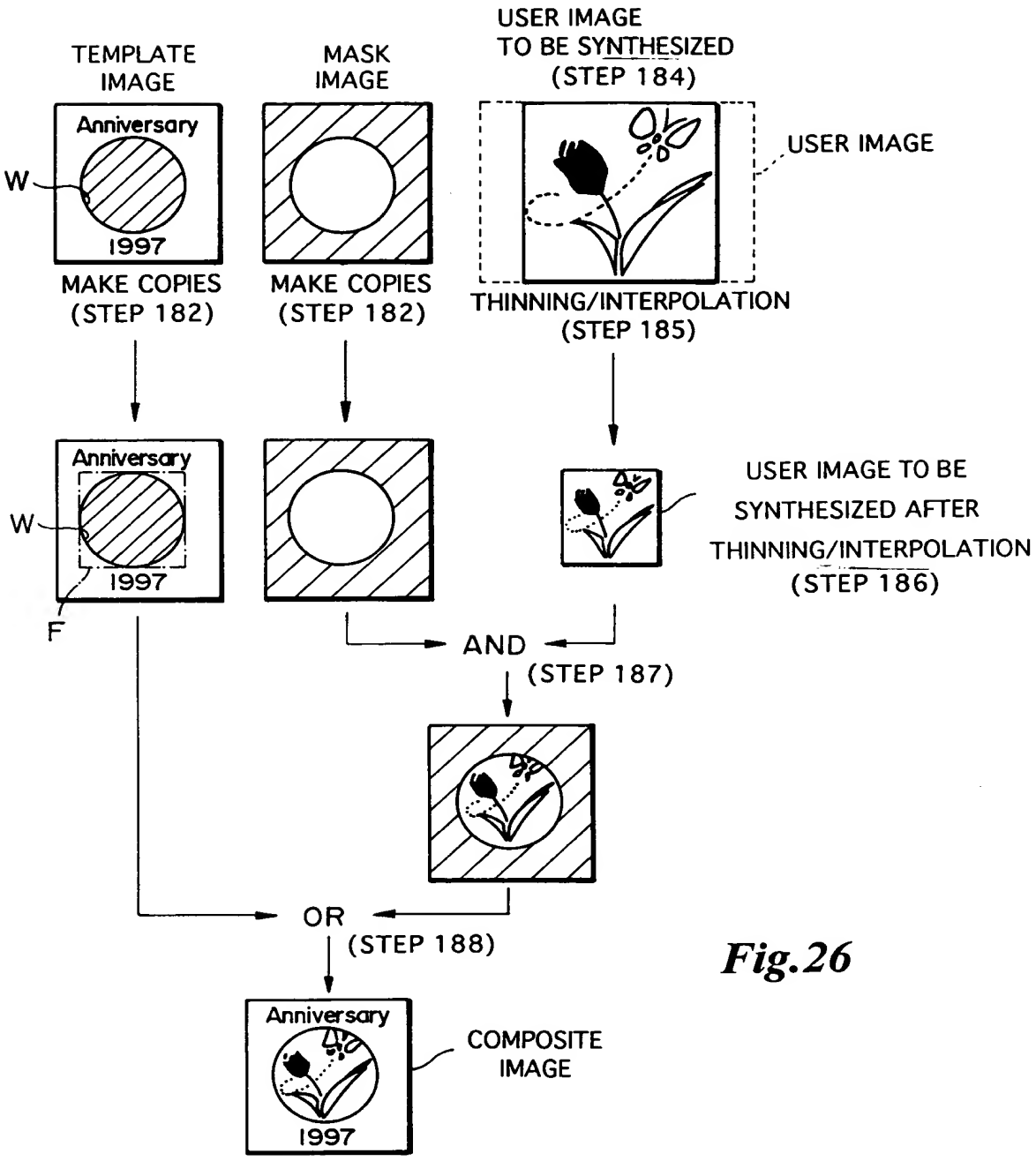

TEMPLATE IMAGE
MASK IMAGE
USER IMAGE TO BE SYNTHESIZED (STEP 184)
USER IMAGE
Anniversary
W
1997
MAKE COPIES (STEP 182)
MAKE COPIES (STEP 182)
THINNING/INTERPOLATION (STEP 185)
Anniversary
W
1997
F
USER IMAGE TO BE SYNTHESIZED AFTER THINNING/INTERPOLATION (STEP 186)
AND (STEP 187)
OR (STEP 188)
Anniversary
1997
COMPOSITE IMAGE

Fig.26

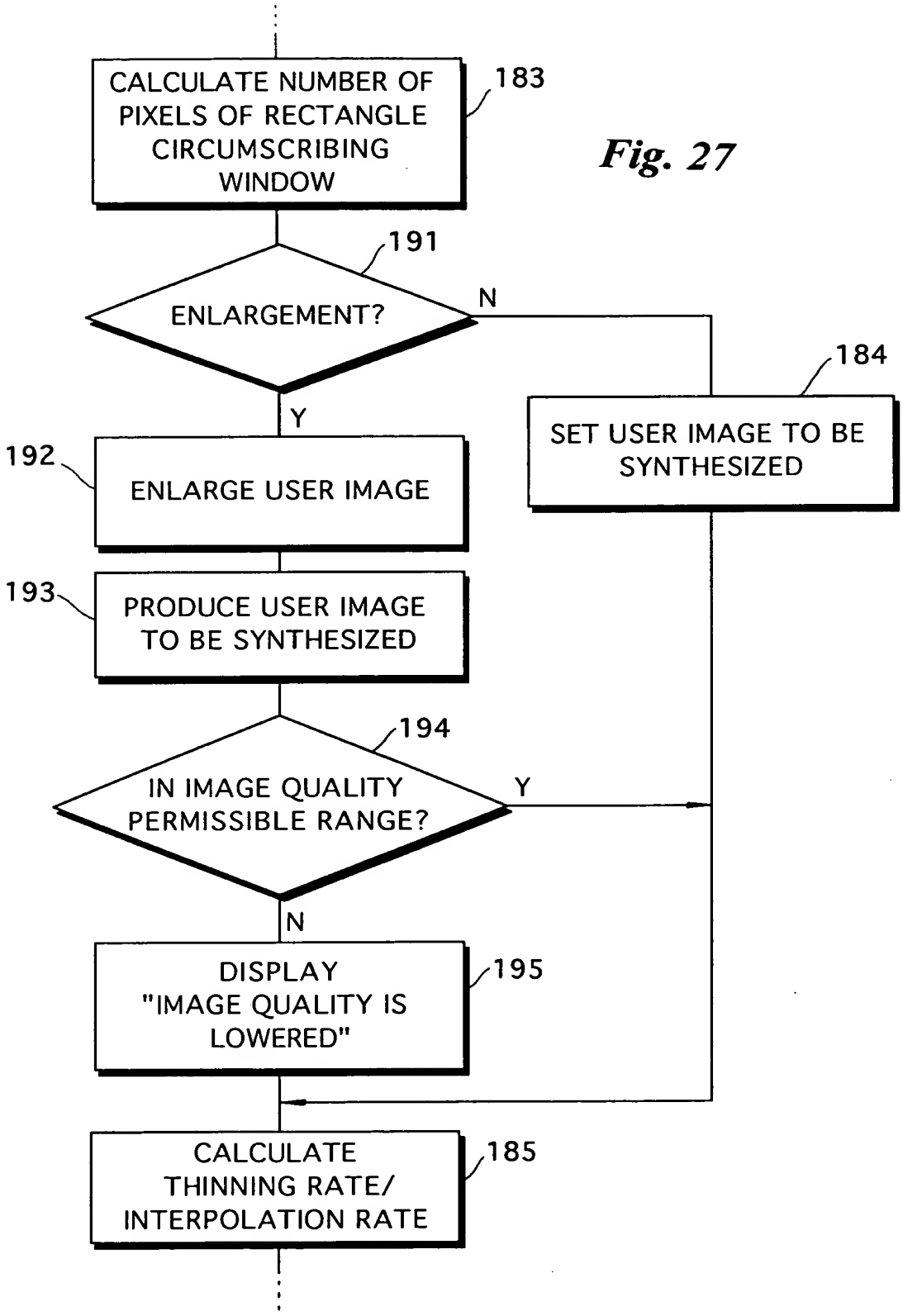

CALCULATE NUMBER OF PIXELS OF RECTANGLE CIRCUMSCRIBING WINDOW
183
191
ENLARGEMENT?
N
Y
184
SET USER IMAGE TO BE SYNTHESIZED
192
ENLARGE USER IMAGE
193
PRODUCE USER IMAGE TO BE SYNTHESIZED
194
IN IMAGE QUALITY PERMISSIBLE RANGE?
Y
N
DISPLAY "IMAGE QUALITY IS LOWERED"
195
CALCULATE THINNING RATE/ INTERPOLATION RATE
185

Fig. 27

Fig. 28a

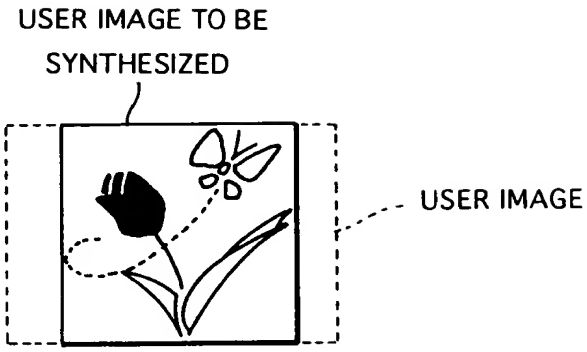
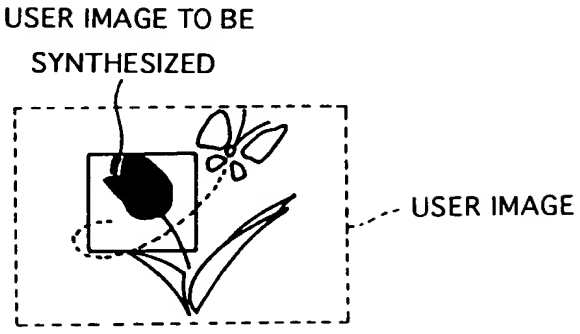


Fig. 28b



PARTIAL PRINTING

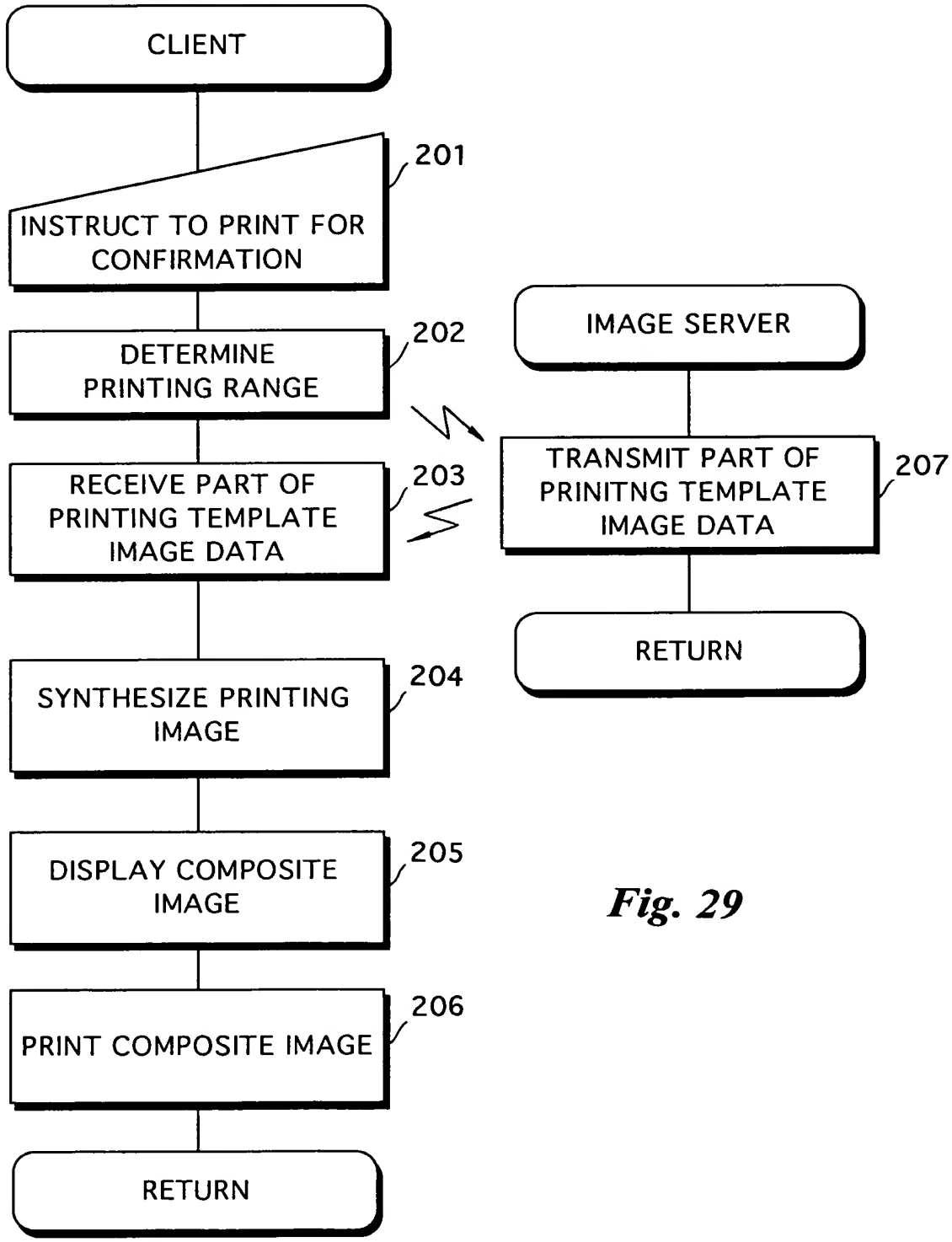


Fig. 29

Fig. 30a

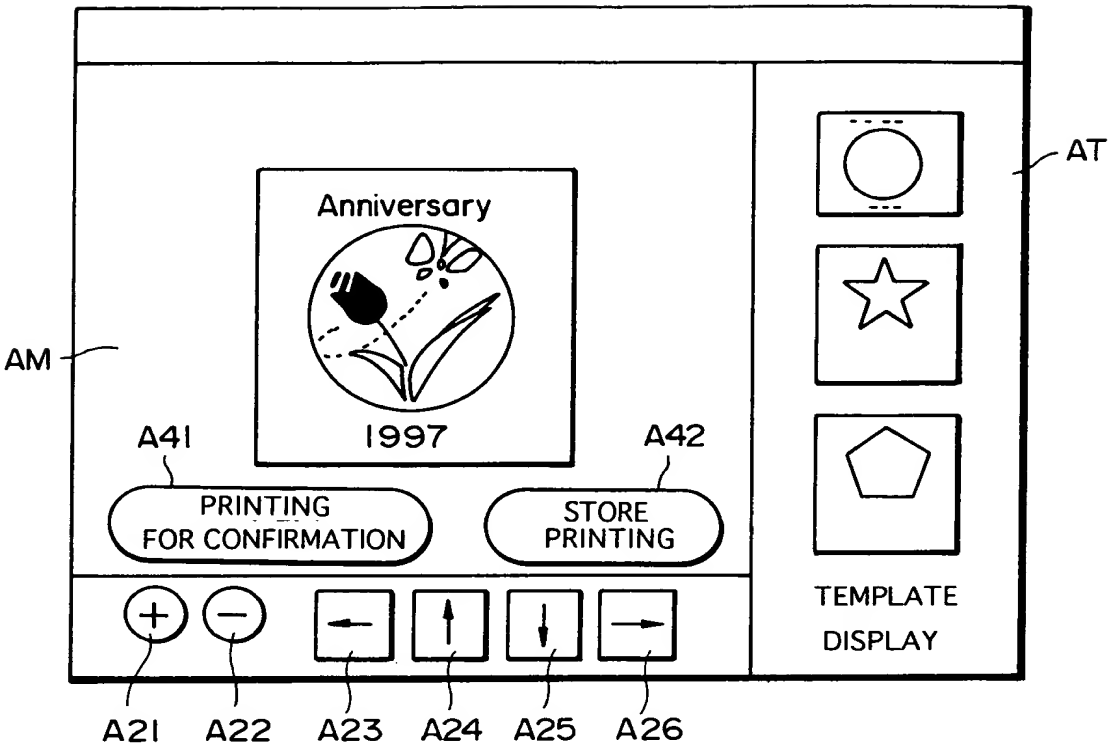
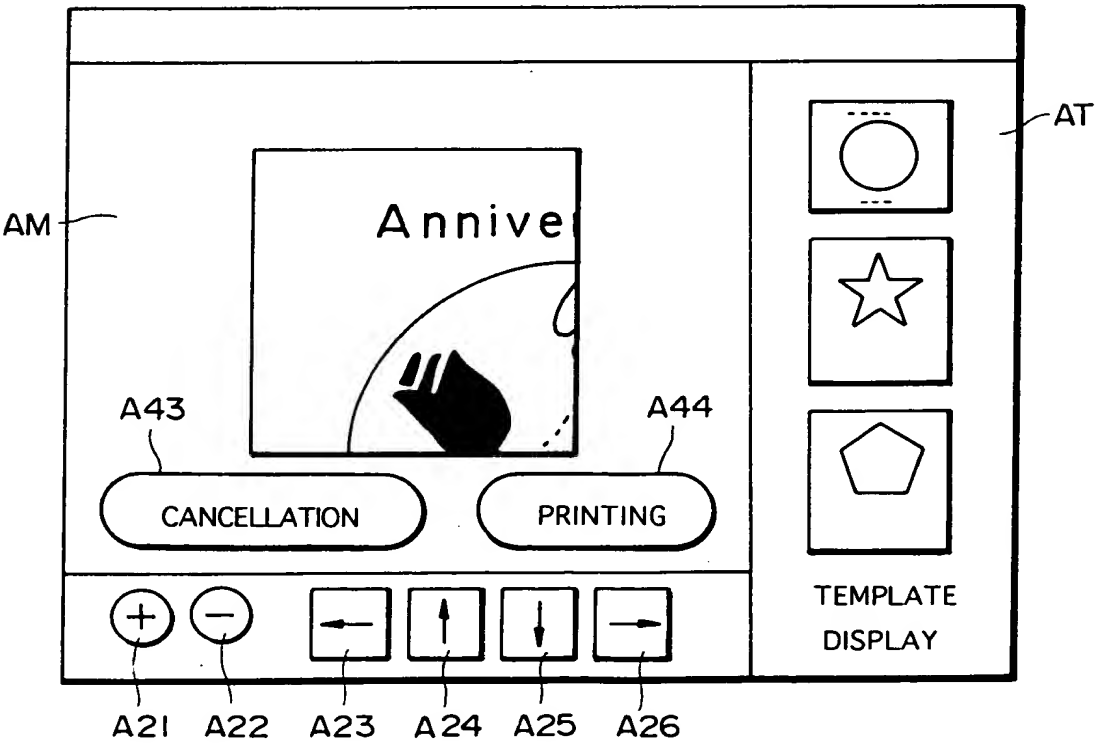


Fig. 30b



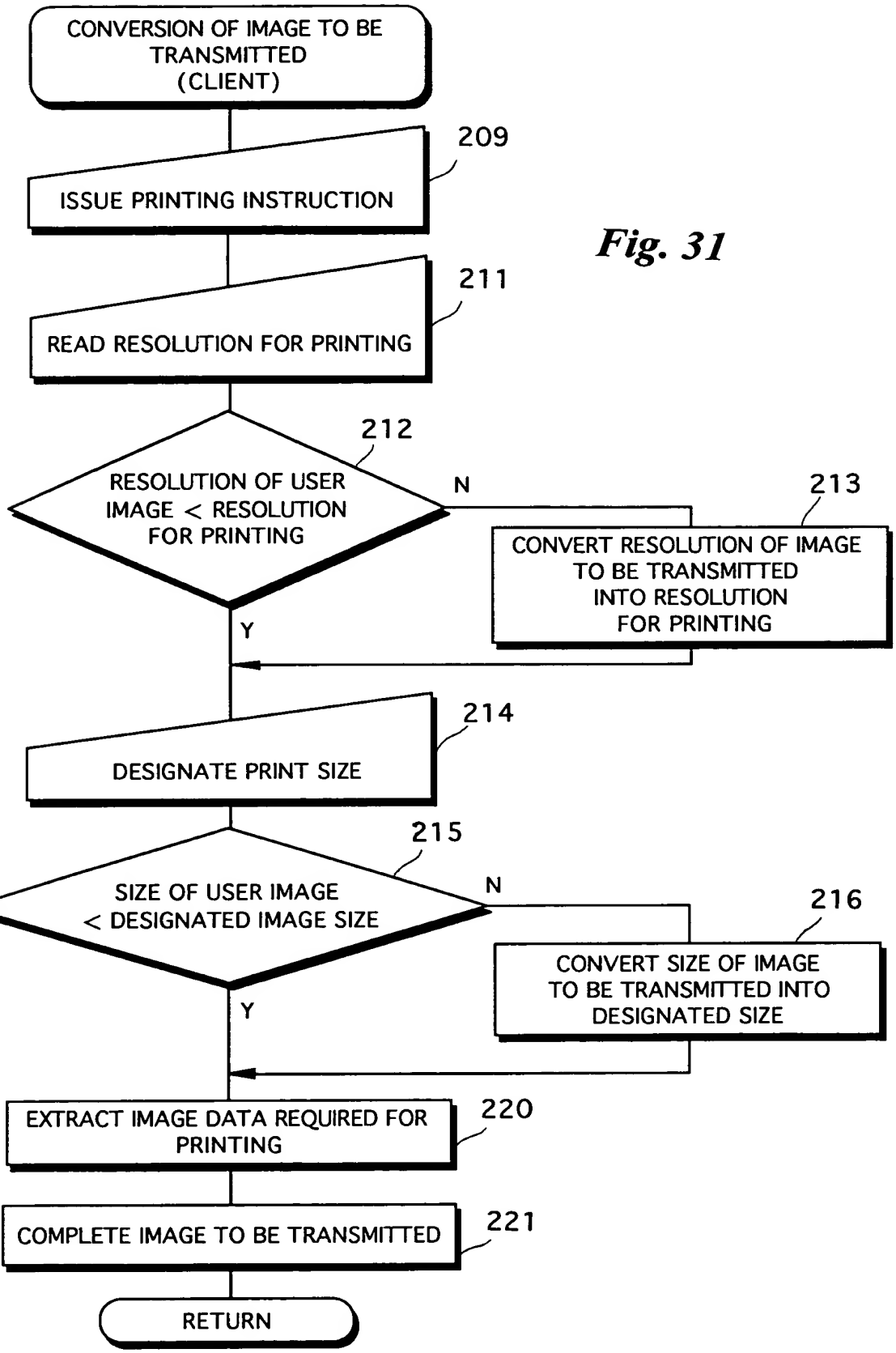

CONVERSION OF IMAGE TO BE TRANSMITTED (CLIENT)
209
ISSUE PRINTING INSTRUCTION
211
READ RESOLUTION FOR PRINTING
212
RESOLUTION OF USER IMAGE < RESOLUTION FOR PRINTING
N
213
CONVERT RESOLUTION OF IMAGE TO BE TRANSMITTED INTO RESOLUTION FOR PRINTING
Y
214
DESIGNATE PRINT SIZE
215
SIZE OF USER IMAGE < DESIGNATED IMAGE SIZE
N
216
CONVERT SIZE OF IMAGE TO BE TRANSMITTED INTO DESIGNATED SIZE
Y
220
EXTRACT IMAGE DATA REQUIRED FOR PRINTING
221
COMPLETE IMAGE TO BE TRANSMITTED
RETURN

Fig. 31

Fig. 32

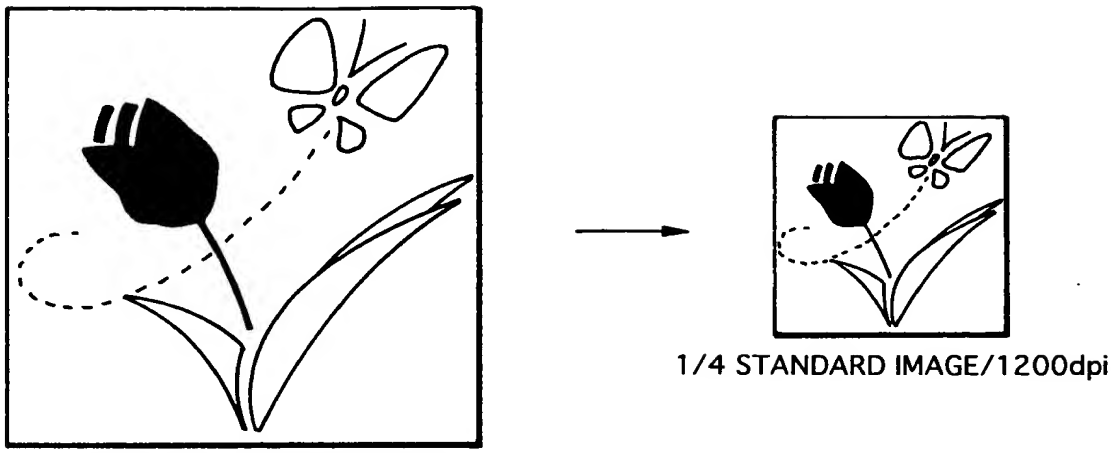
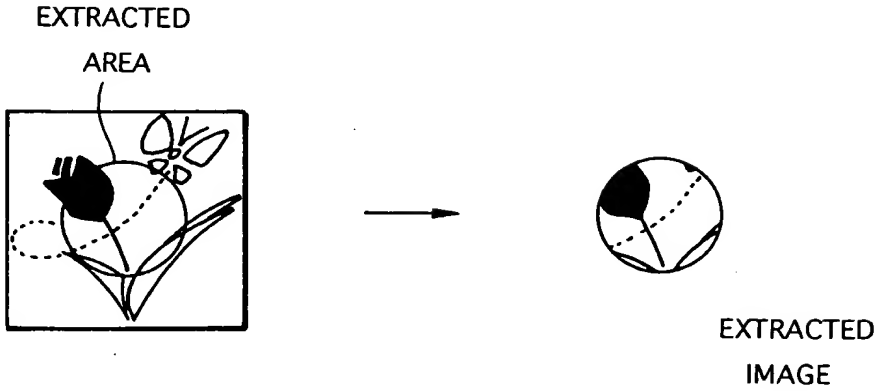

STANDARD IMAGE/1800dpi
1/4 STANDARD IMAGE/1200dpi

Fig. 33


EXTRACTED
AREA
EXTRACTED
IMAGE

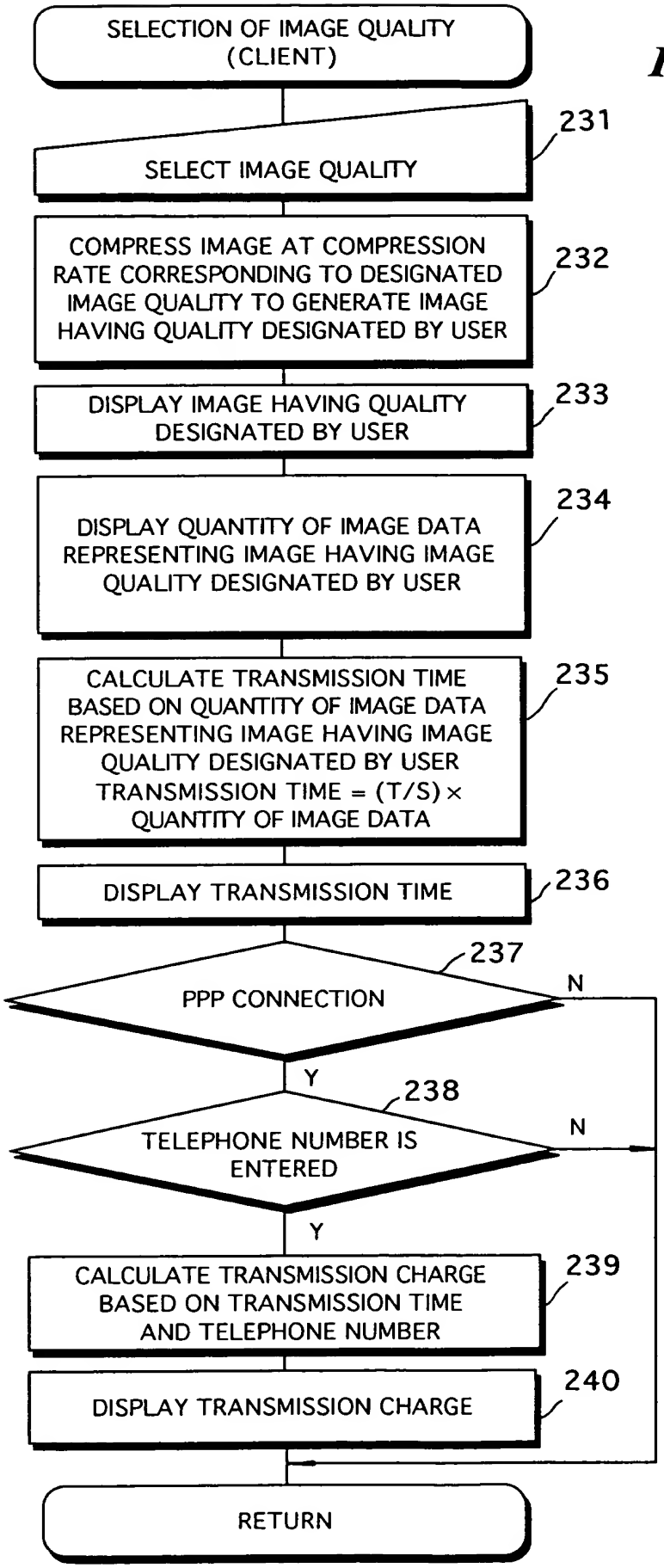

SELECTION OF IMAGE QUALITY (CLIENT)
231
SELECT IMAGE QUALITY
232
COMPRESS IMAGE AT COMPRESSION RATE CORRESPONDING TO DESIGNATED IMAGE QUALITY TO GENERATE IMAGE HAVING QUALITY DESIGNATED BY USER
233
DISPLAY IMAGE HAVING QUALITY DESIGNATED BY USER
234
DISPLAY QUANTITY OF IMAGE DATA REPRESENTING IMAGE HAVING IMAGE QUALITY DESIGNATED BY USER
235
CALCULATE TRANSMISSION TIME BASED ON QUANTITY OF IMAGE DATA REPRESENTING IMAGE HAVING IMAGE QUALITY DESIGNATED BY USER
TRANSMISSION TIME = (T/S) × QUANTITY OF IMAGE DATA
236
DISPLAY TRANSMISSION TIME
237
PPP CONNECTION
N
Y
238
TELEPHONE NUMBER IS ENTERED
N
Y
239
CALCULATE TRANSMISSION CHARGE BASED ON TRANSMISSION TIME AND TELEPHONE NUMBER
240
DISPLAY TRANSMISSION CHARGE
RETURN

Fig. 34

Fig. 35

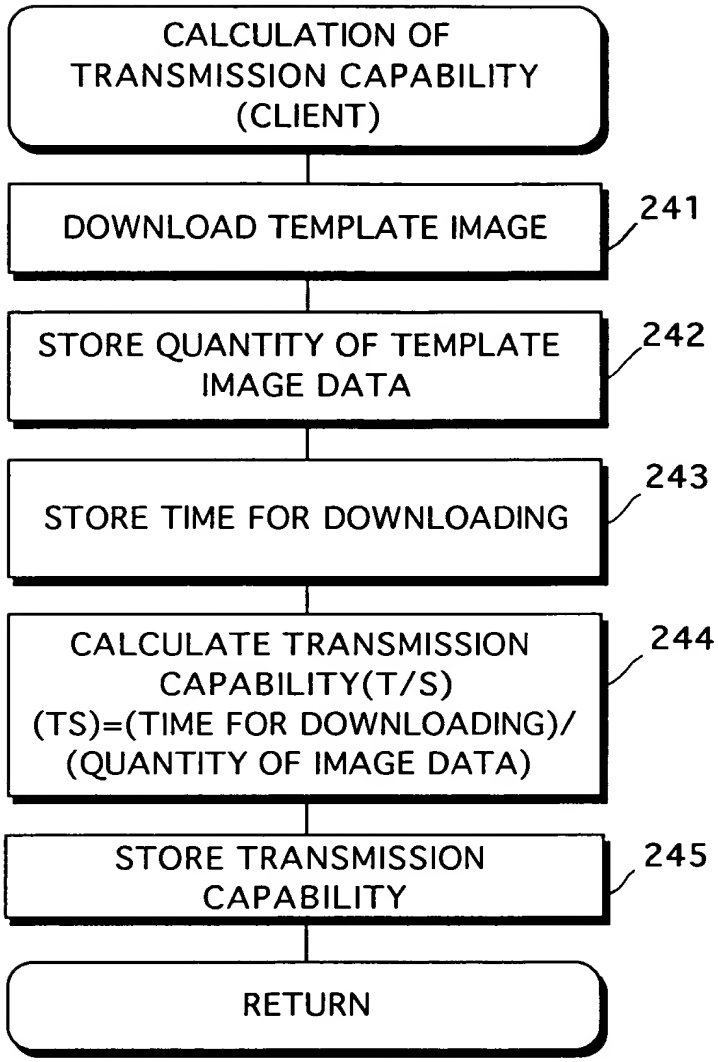

CALCULATION OF TRANSMISSION CAPABILITY (CLIENT)
DOWNLOAD TEMPLATE IMAGE
241
STORE QUANTITY OF TEMPLATE IMAGE DATA
242
STORE TIME FOR DOWNLOADING
243
CALCULATE TRANSMISSION CAPABILITY(T/S) (TS)=(TIME FOR DOWNLOADING)/ (QUANTITY OF IMAGE DATA)
244
STORE TRANSMISSION CAPABILITY
245
RETURN

Fig. 36

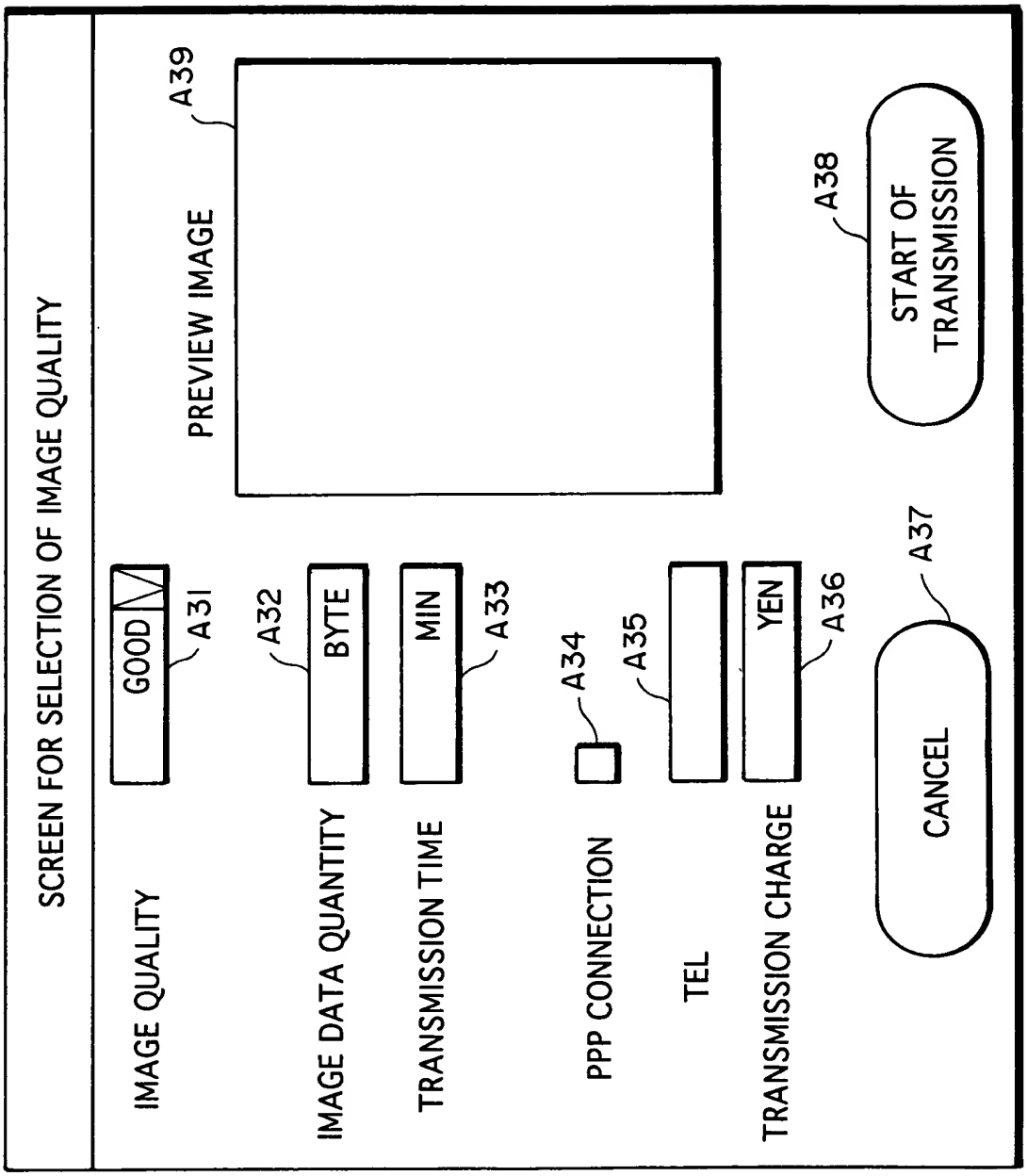
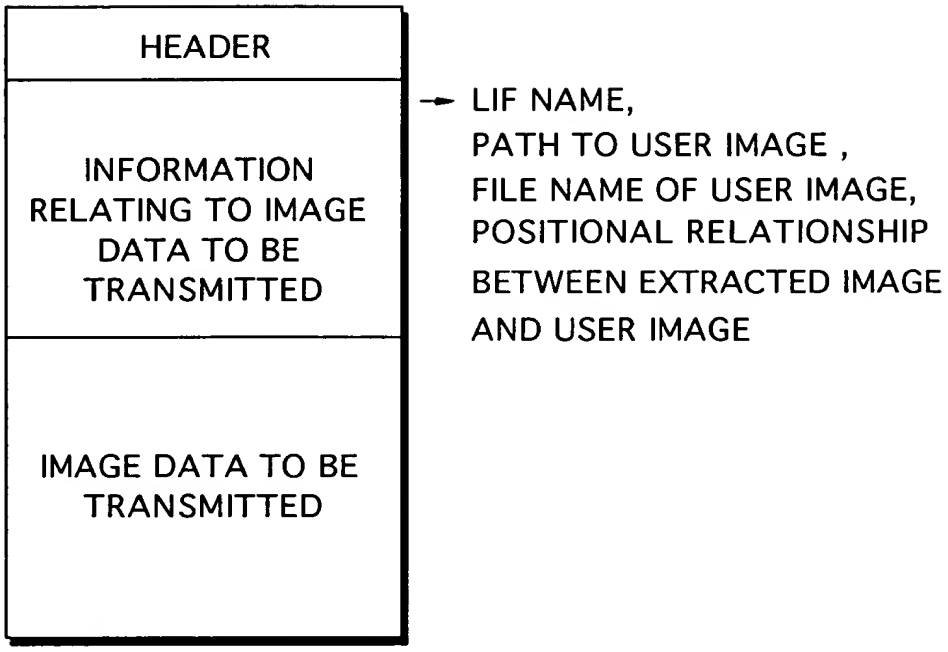

SCREEN FOR SELECTION OF IMAGE QUALITY
IMAGE QUALITY
GOOD
A31
IMAGE DATA QUANTITY
BYTE
A32
TRANSMISSION TIME
MIN
A33
PPP CONNECTION
A34
TEL
A35
TRANSMISSION CHARGE
YEN
A36
PREVIEW IMAGE
A39
CANCEL
A37
START OF TRANSMISSION
A38

Fig. 37


HEADER
INFORMATION RELATING TO IMAGE DATA TO BE TRANSMITTED
IMAGE DATA TO BE TRANSMITTED
LIF NAME,
PATH TO USER IMAGE ,
FILE NAME OF USER IMAGE,
POSITIONAL RELATIONSHIP
BETWEEN EXTRACTED IMAGE
AND USER IMAGE

PRINTING PROCESSING

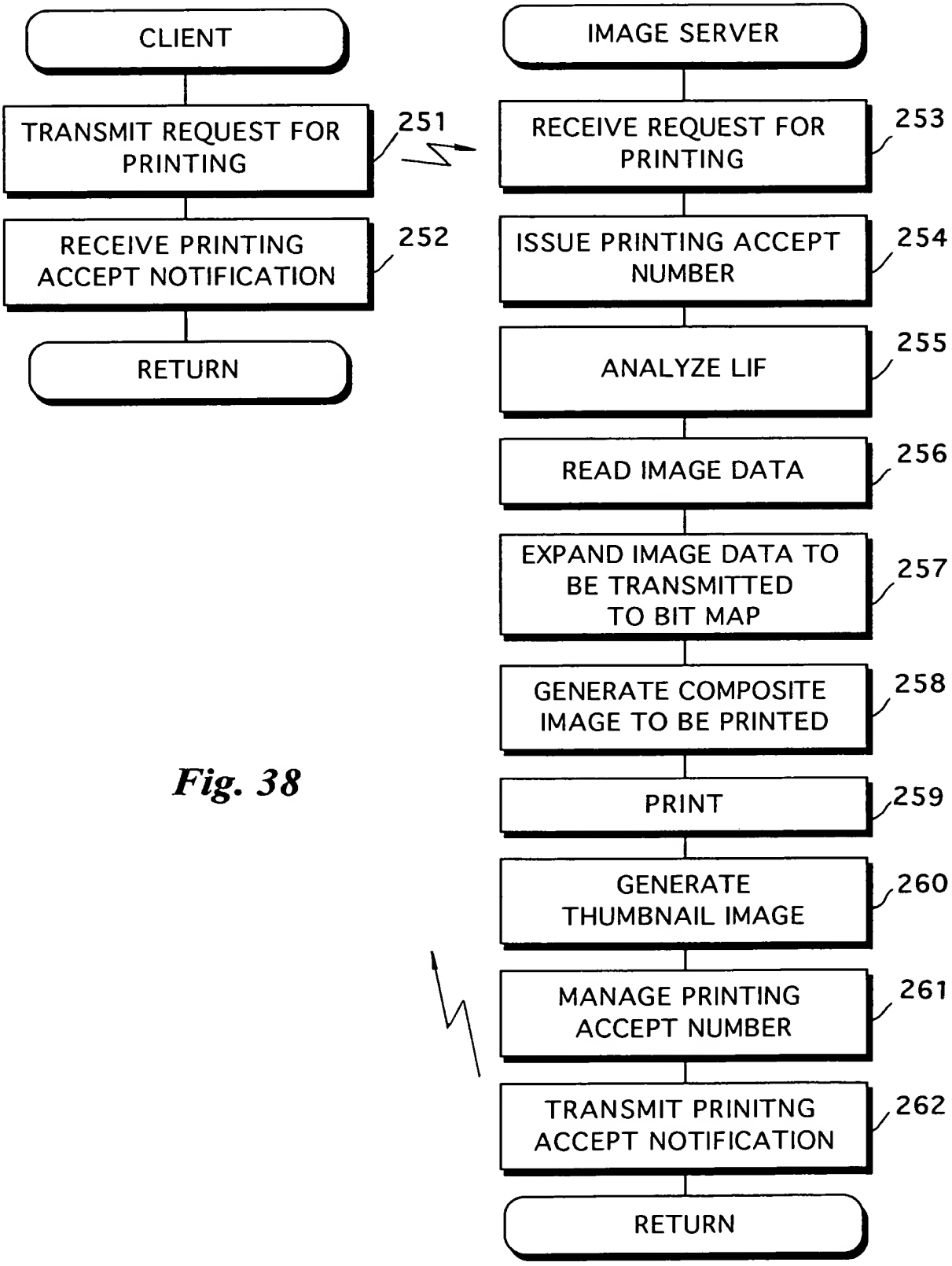


Fig. 38

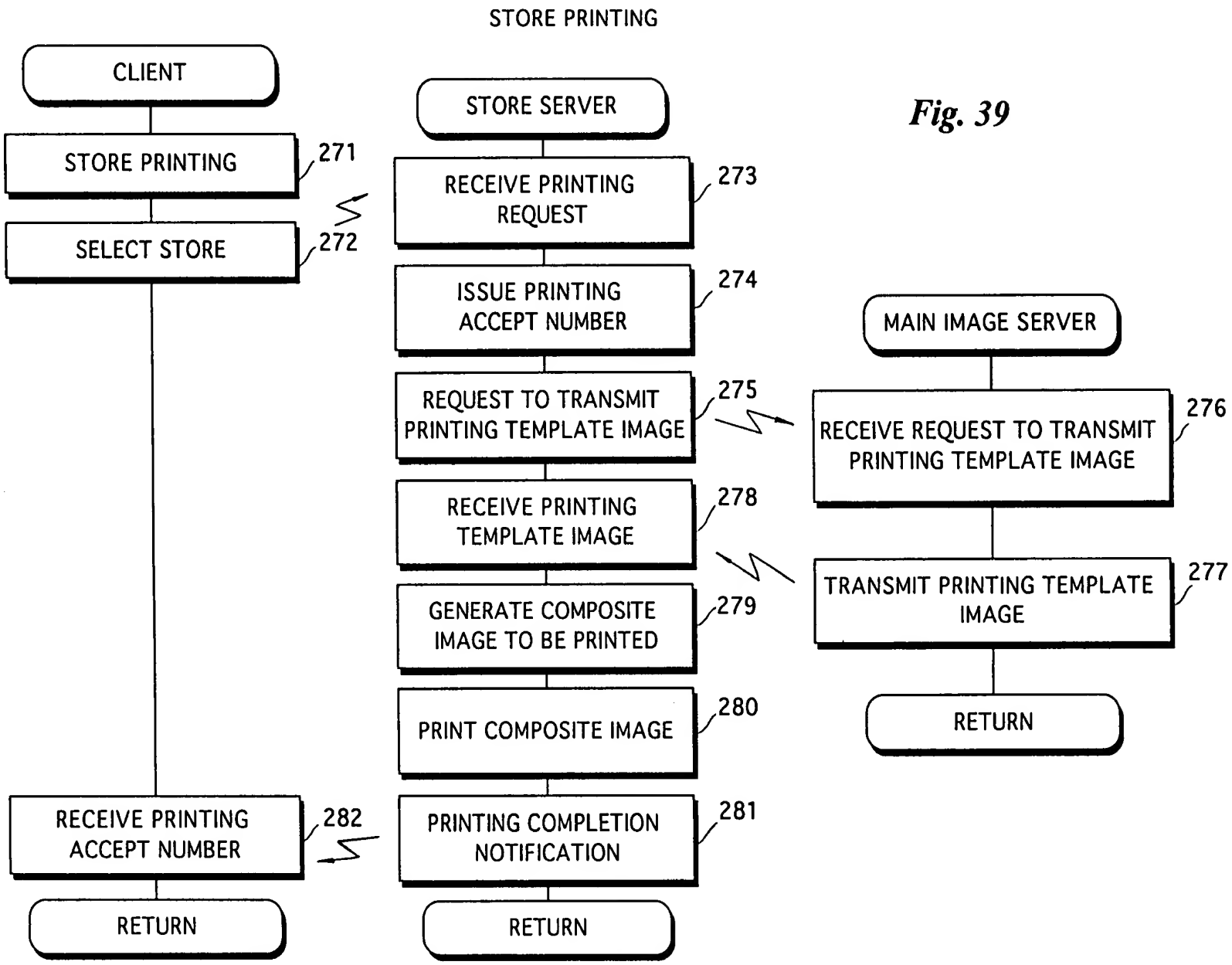

STORE PRINTING
CLIENT
STORE PRINTING
271
SELECT STORE
272
RECEIVE PRINTING ACCEPT NUMBER
282
RETURN
STORE SERVER
RECEIVE PRINTING REQUEST
273
ISSUE PRINTING ACCEPT NUMBER
274
REQUEST TO TRANSMIT PRINTING TEMPLATE IMAGE
275
RECEIVE PRINTING TEMPLATE IMAGE
278
GENERATE COMPOSITE IMAGE TO BE PRINTED
279
PRINT COMPOSITE IMAGE
280
PRINTING COMPLETION NOTIFICATION
281
RETURN
MAIN IMAGE SERVER
RECEIVE REQUEST TO TRANSMIT PRINTING TEMPLATE IMAGE
276
TRANSMIT PRINTING TEMPLATE IMAGE
277
RETURN

Fig. 39

RESYNTHESIS

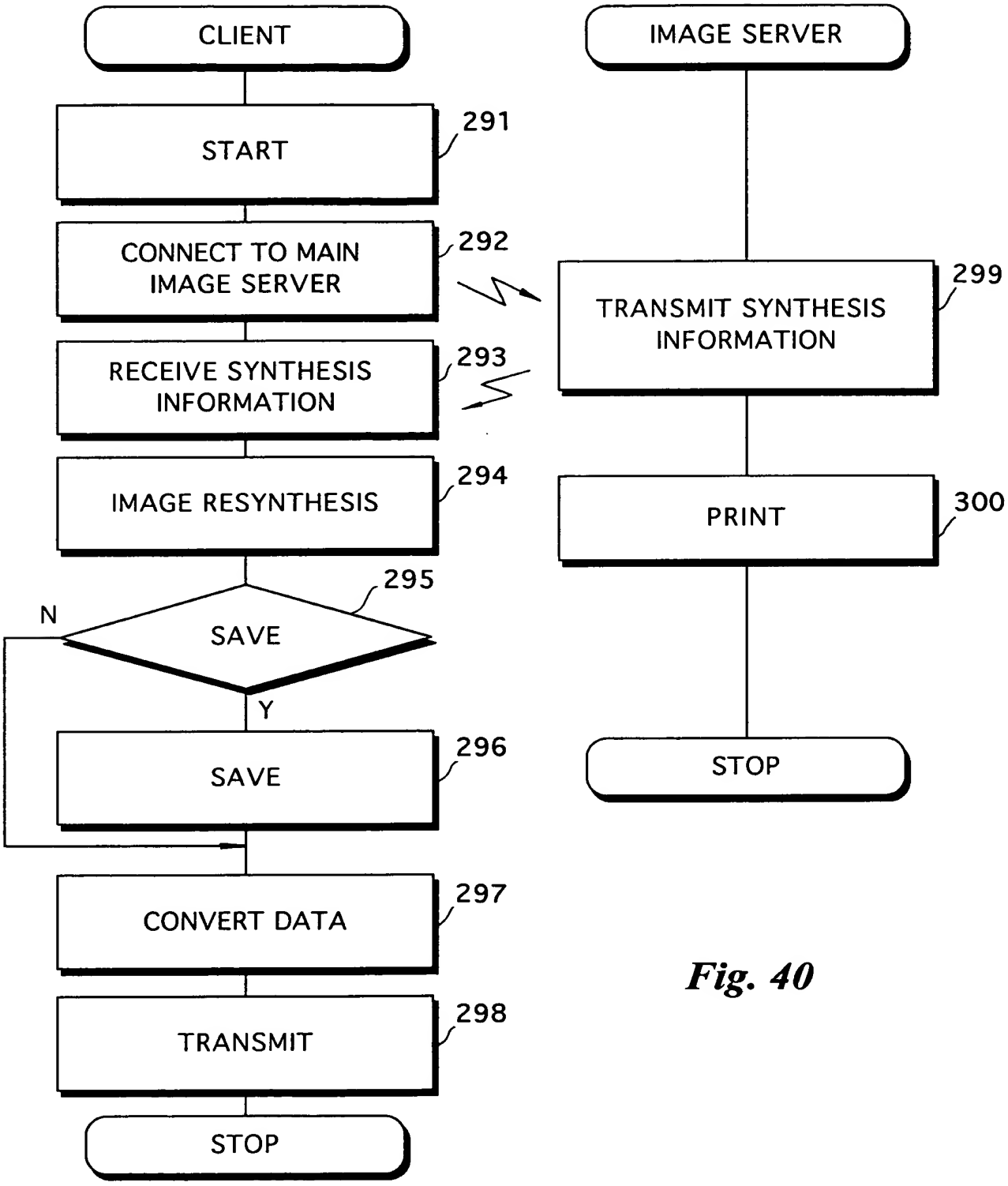
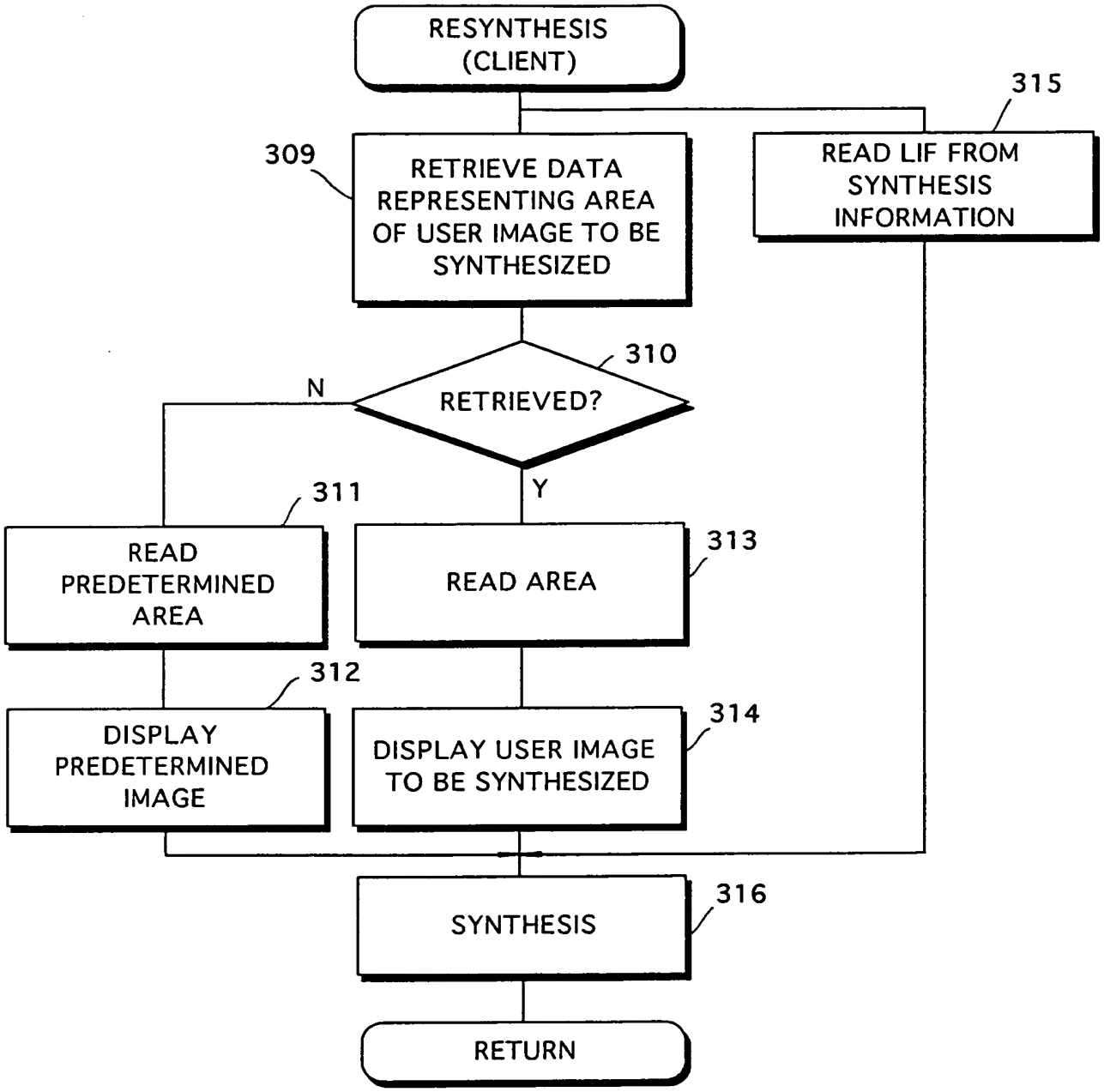


Fig. 40

Fig. 41


RESYNTHESIS (CLIENT)
315
309
RETRIEVE DATA REPRESENTING AREA OF USER IMAGE TO BE SYNTHESIZED
READ LIF FROM SYNTHESIS INFORMATION
310
N
RETRIEVED?
Y
311
READ PREDETERMINED AREA
313
READ AREA
312
DISPLAY PREDETERMINED IMAGE
314
DISPLAY USER IMAGE TO BE SYNTHESIZED
316
SYNTHESIS
RETURN

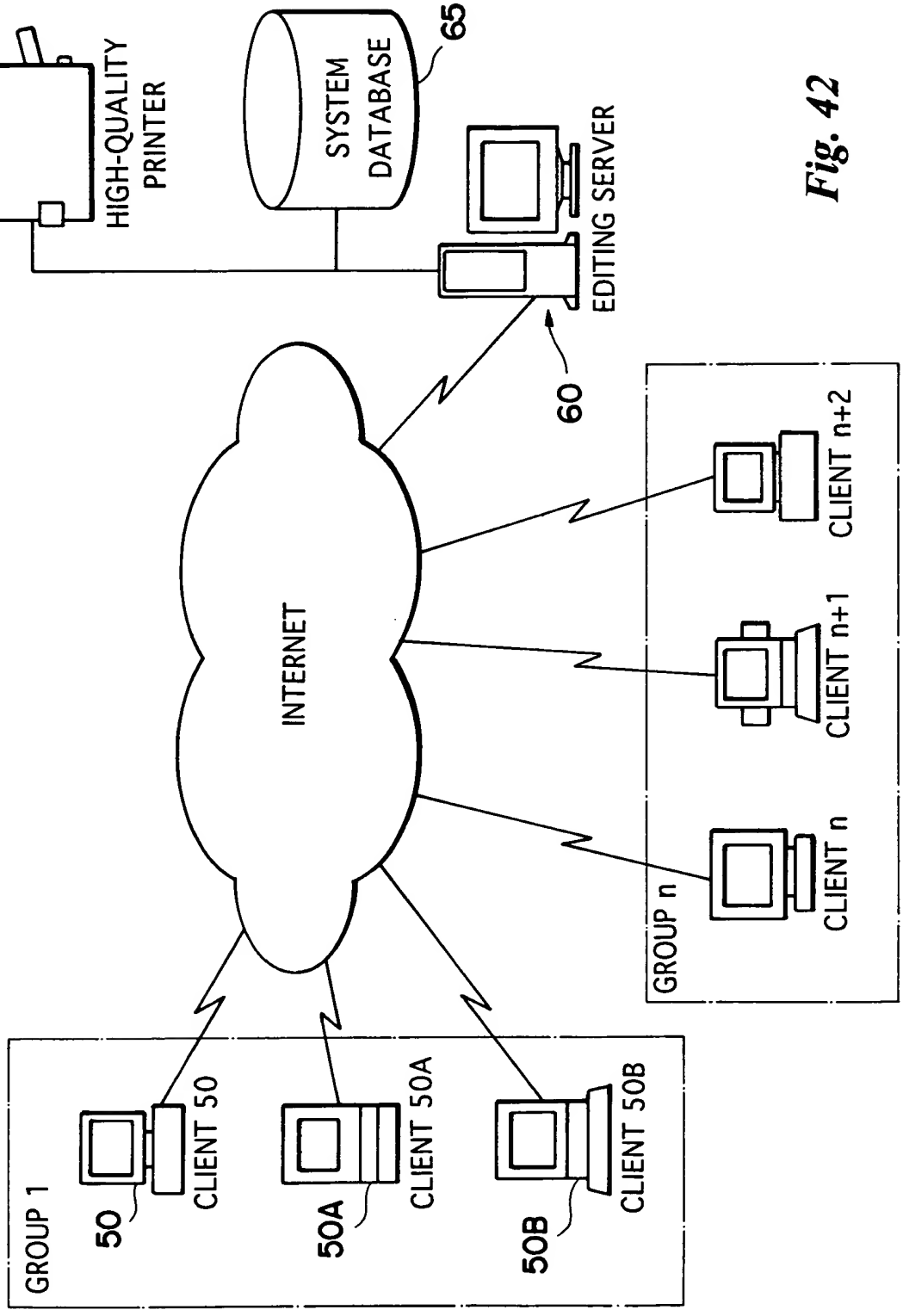

66
HIGH-QUALITY PRINTER
SYSTEM DATABASE
65
EDITING SERVER
60
INTERNET
GROUP 1
50
CLIENT 50
50A
CLIENT 50A
50B
CLIENT 50B
GROUP n
CLIENT n
CLIENT n+1
CLIENT n+2

Fig. 42

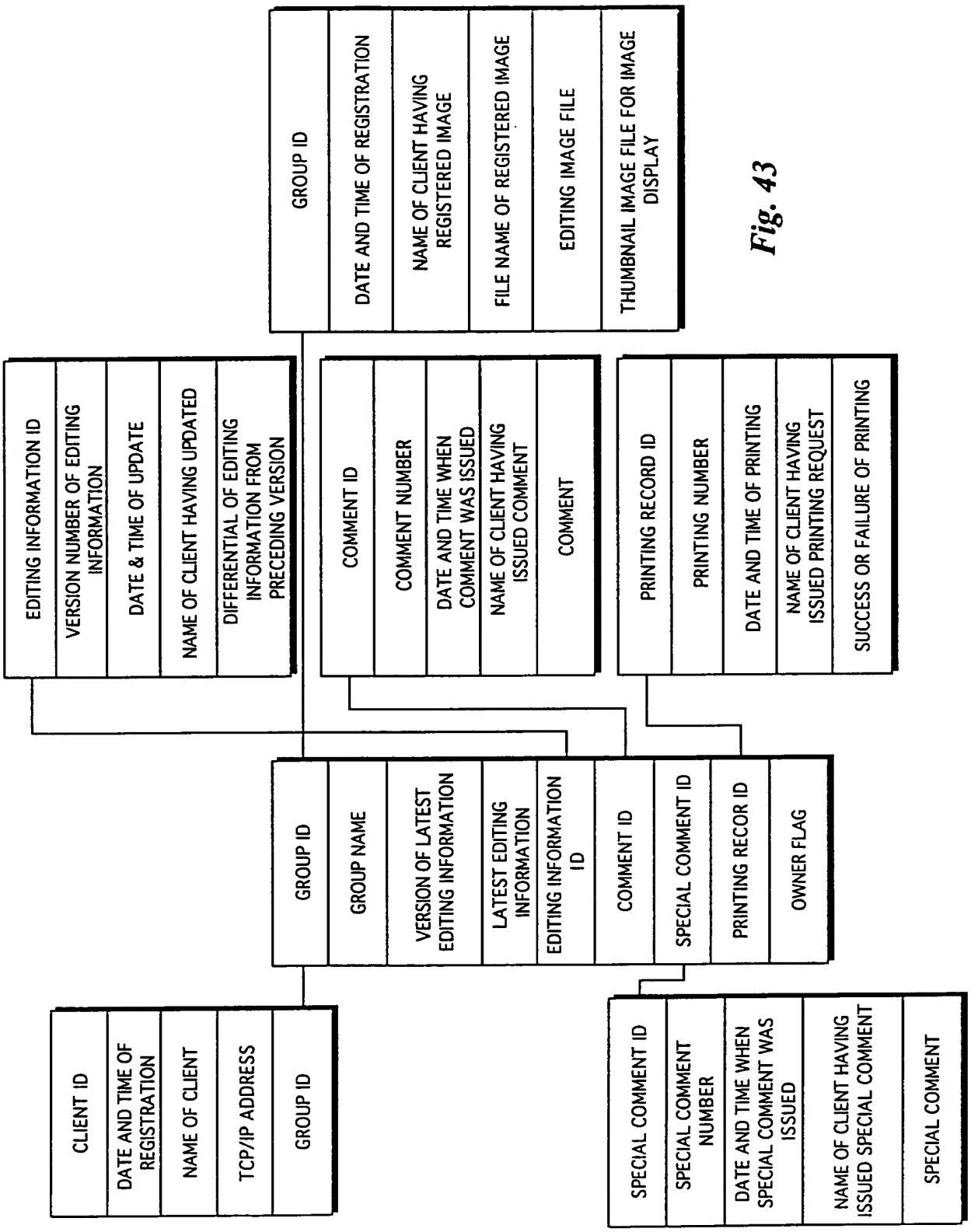

GROUP ID
DATE AND TIME OF REGISTRATION
NAME OF CLIENT HAVING REGISTERED IMAGE
FILE NAME OF REGISTERED IMAGE
EDITING IMAGE FILE
THUMBNAIL IMAGE FILE FOR IMAGE DISPLAY
EDITING INFORMATION ID
VERSION NUMBER OF EDITING INFORMATION
DATE & TIME OF UPDATE
NAME OF CLIENT HAVING UPDATED
DIFFERENTIAL OF EDITING INFORMATION FROM PRECEDING VERSION
COMMENT ID
COMMENT NUMBER
DATE AND TIME WHEN COMMENT WAS ISSUED
NAME OF CLIENT HAVING ISSUED COMMENT
COMMENT
PRINTING RECORD ID
PRINTING NUMBER
DATE AND TIME OF PRINTING
NAME OF CLIENT HAVING ISSUED PRINTING REQUEST
SUCCESS OR FAILURE OF PRINTING
GROUP ID
GROUP NAME
VERSION OF LATEST EDITING INFORMATION
LATEST EDITING INFORMATION
EDITING INFORMATION ID
COMMENT ID
SPECIAL COMMENT ID
PRINTING RECOR ID
OWNER FLAG
CLIENT ID
DATE AND TIME OF REGISTRATION
NAME OF CLIENT
TCP/IP ADDRESS
GROUP ID
SPECIAL COMMENT ID
SPECIAL COMMENT NUMBER
DATE AND TIME WHEN SPECIAL COMMENT WAS ISSUED
NAME OF CLIENT HAVING ISSUED SPECIAL COMMENT
SPECIAL COMMENT

Fig. 43

Fig. 44

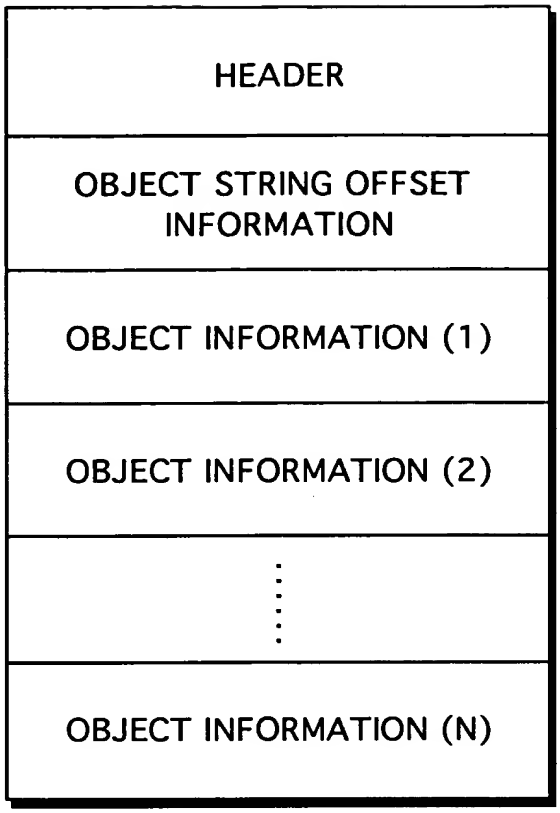
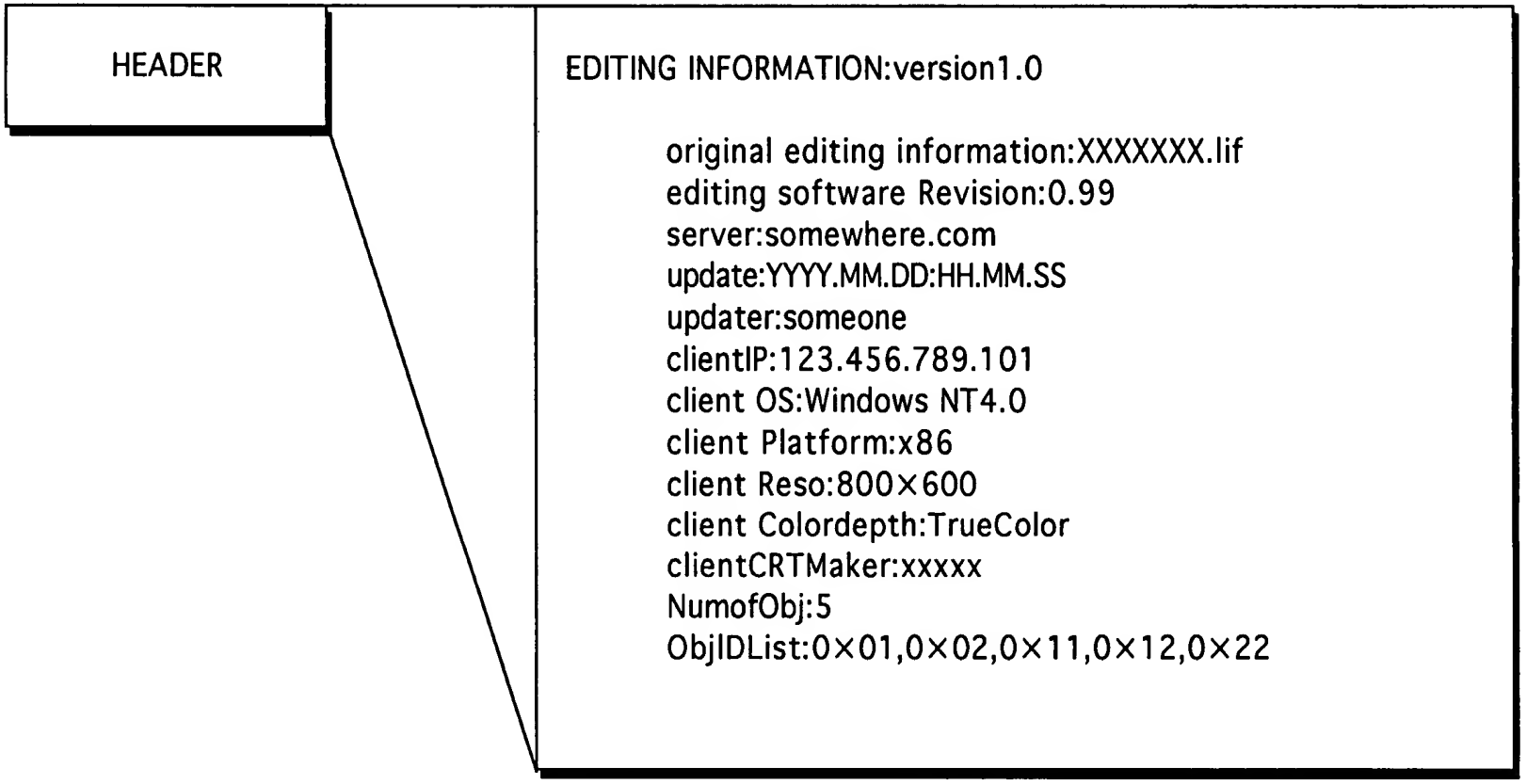

HEADER
OBJECT STRING OFFSET INFORMATION
OBJECT INFORMATION (1)
OBJECT INFORMATION (2)
OBJECT INFORMATION (N)

Fig. 45


HEADER
EDITING INFORMATION:version1.0
original editing information:XXXXXXX.lif
editing software Revision:0.99
server:somewhere.com
update:YYYY.MM.DD:HH.MM.SS
updater:someone
clientIP:123.456.789.101
client OS:Windows NT4.0
client Platform:x86
client Reso:800×600
client Colordepth:TrueColor
clientCRTMaker:xxxxx
NumofObj:5
ObjIDList:0×01,0×02,0×11,0×12,0×22

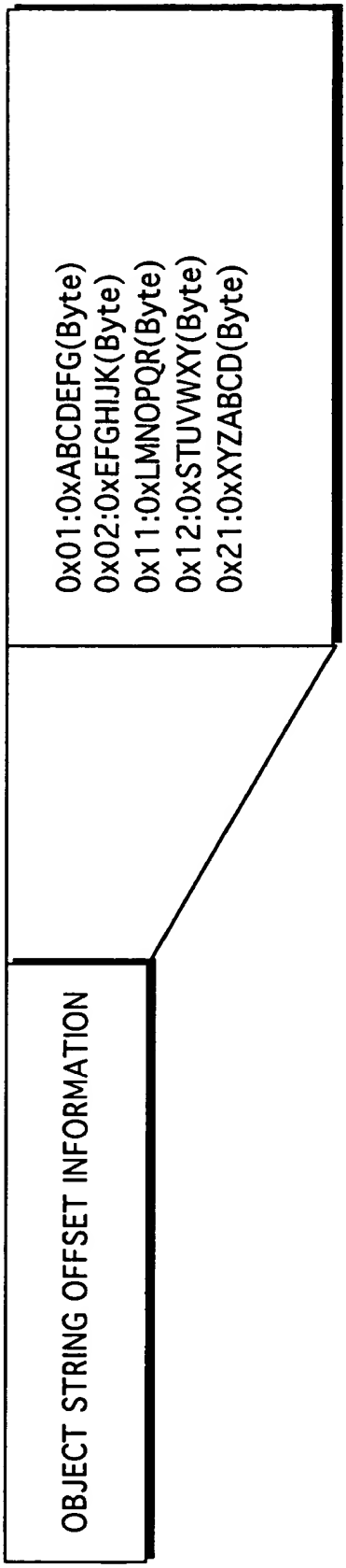

OBJECT STRING OFFSET INFORMATION
0x01:0xABCDEFG(Byte)
0x02:0xEFGHIJK(Byte)
0x11:0xLMNOPQR(Byte)
0x12:0xSTUVWXY(Byte)
0x21:0xXYZABCD(Byte)

Fig. 46

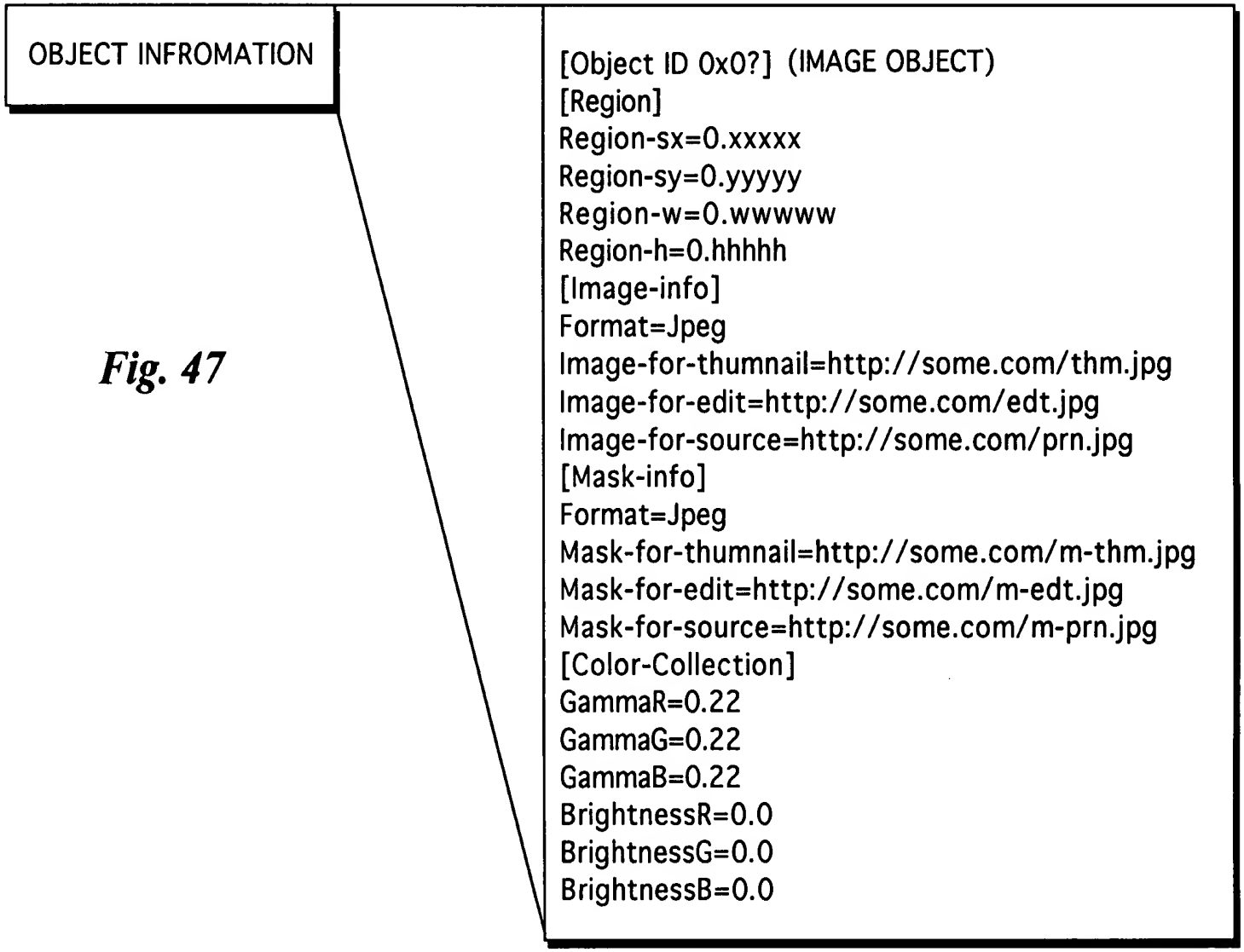

OBJECT INFROMATION
[Object ID 0x0?] (IMAGE OBJECT)
[Region]
Region-sx=0.xxxxx
Region-sy=0.yyyyy
Region-w=0.wwwww
Region-h=0.hhhhh
[Image-info]
Format=Jpeg
Image-for-thumnail=http://some.com/thm.jpg
Image-for-edit=http://some.com/edt.jpg
Image-for-source=http://some.com/prn.jpg
[Mask-info]
Format=Jpeg
Mask-for-thumnail=http://some.com/m-thm.jpg
Mask-for-edit=http://some.com/m-edt.jpg
Mask-for-source=http://some.com/m-prn.jpg
[Color-Collection]
GammaR=0.22
GammaG=0.22
GammaB=0.22
BrightnessR=0.0
BrightnessG=0.0
BrightnessB=0.0

Fig. 47

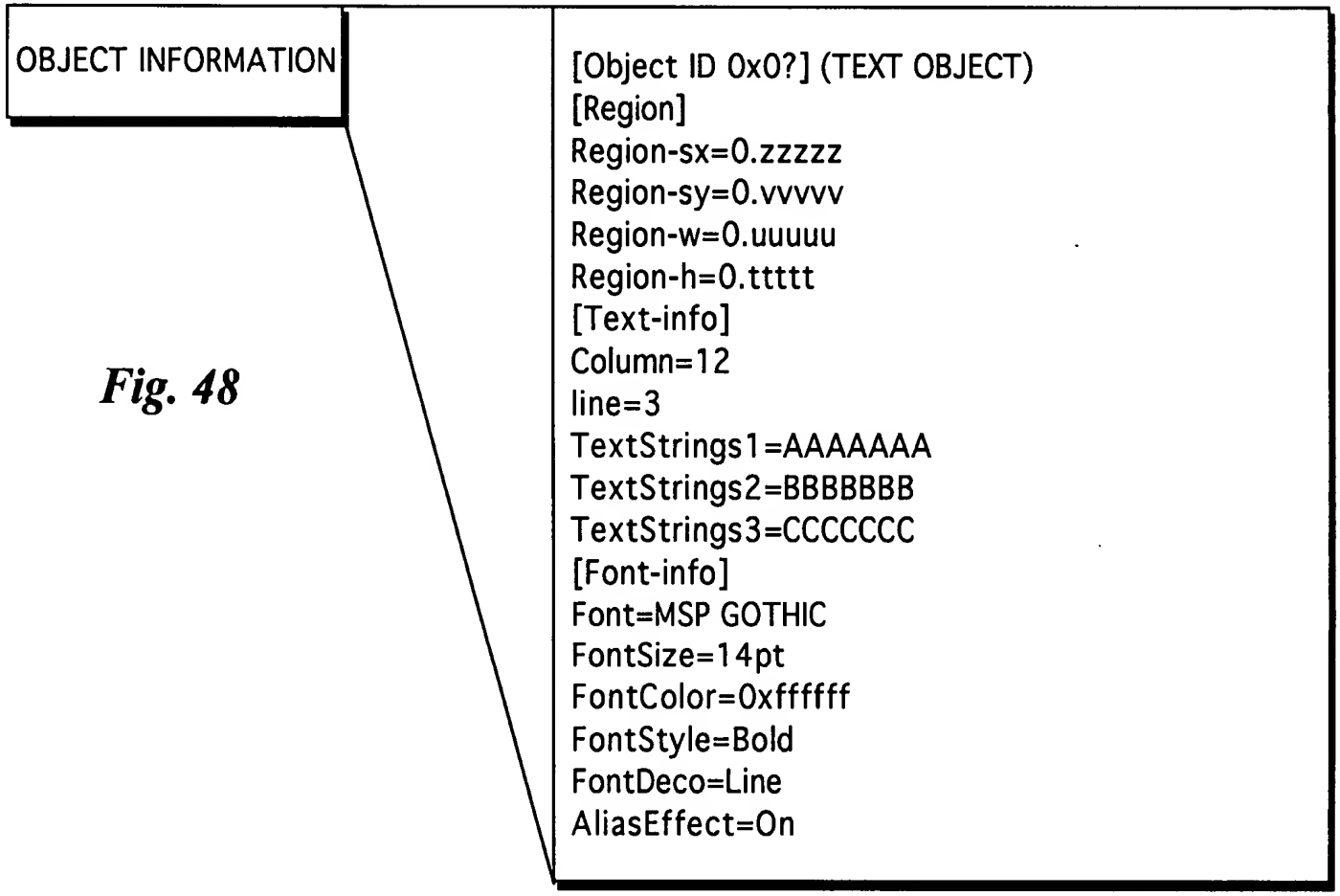

OBJECT INFORMATION
[Object ID 0x0?] (TEXT OBJECT)
[Region]
Region-sx=0.zzzzz
Region-sy=0.vvvvv
Region-w=0.uuuuu
Region-h=0.ttttt
[Text-info]
Column=12
line=3
TextStrings1=AAAAAAA
TextStrings2=BBBBBBB
TextStrings3=CCCCCCC
[Font-info]
Font=MSP GOTHIC
FontSize=14pt
FontColor=0xffffff
FontStyle=Bold
FontDeco=Line
AliasEffect=On

Fig. 48

Fig. 49

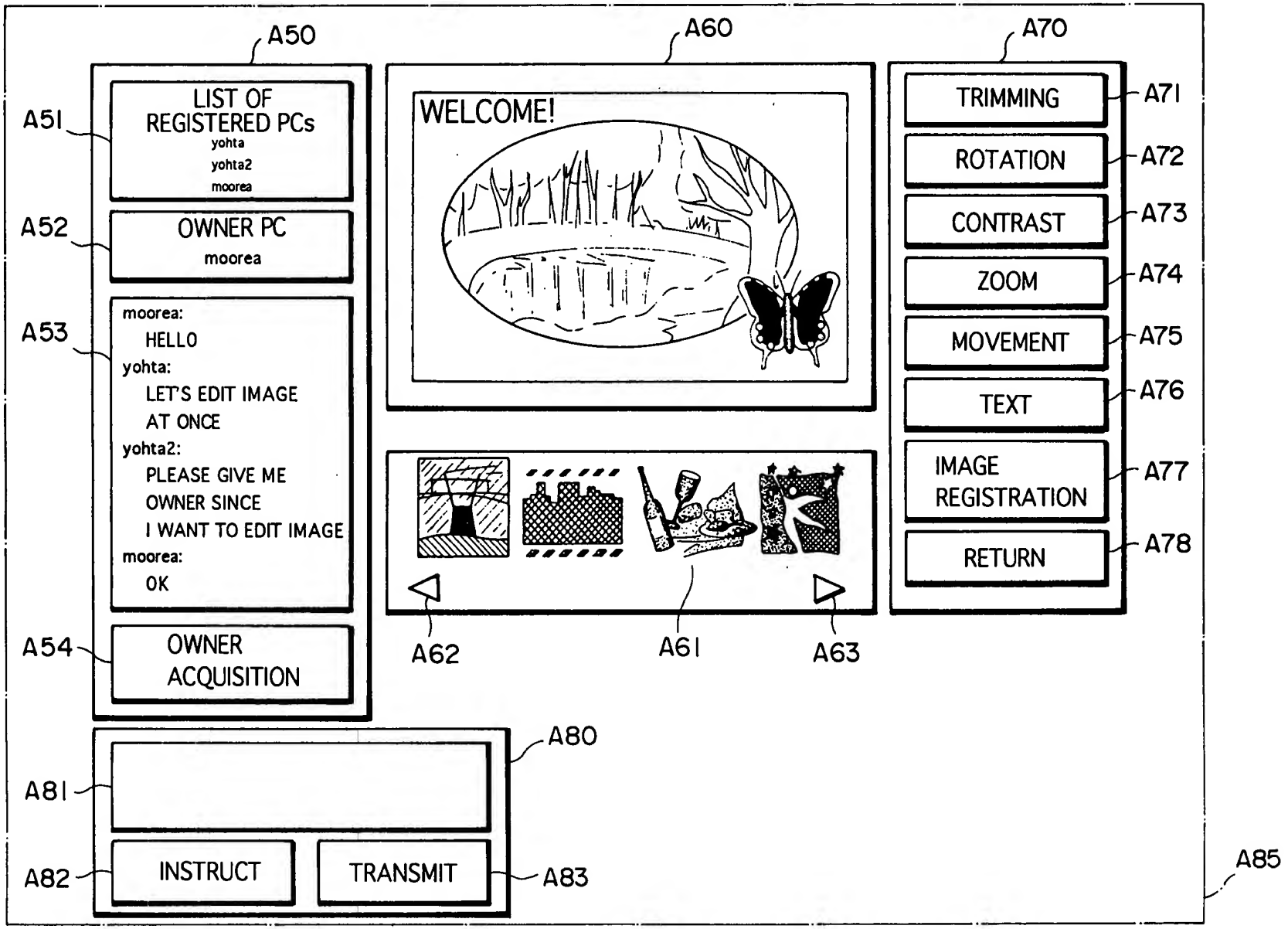

A50
A60
A70
A51
LIST OF REGISTERED PCs
yohta
yohta2
moorea
WELCOME!
TRIMMING
A71
ROTATION
A72
A52
OWNER PC
moorea
CONTRAST
A73
ZOOM
A74
A53
moorea:
HELLO
yohta:
LET'S EDIT IMAGE AT ONCE
yohta2:
PLEASE GIVE ME OWNER SINCE I WANT TO EDIT IMAGE
moorea:
OK
MOVEMENT
A75
TEXT
A76
IMAGE REGISTRATION
A77
RETURN
A78
A54
OWNER ACQUISITION
A62
A61
A63
A80
A81
A82
INSTRUCT
TRANSMIT
A83
A85

Fig. 50

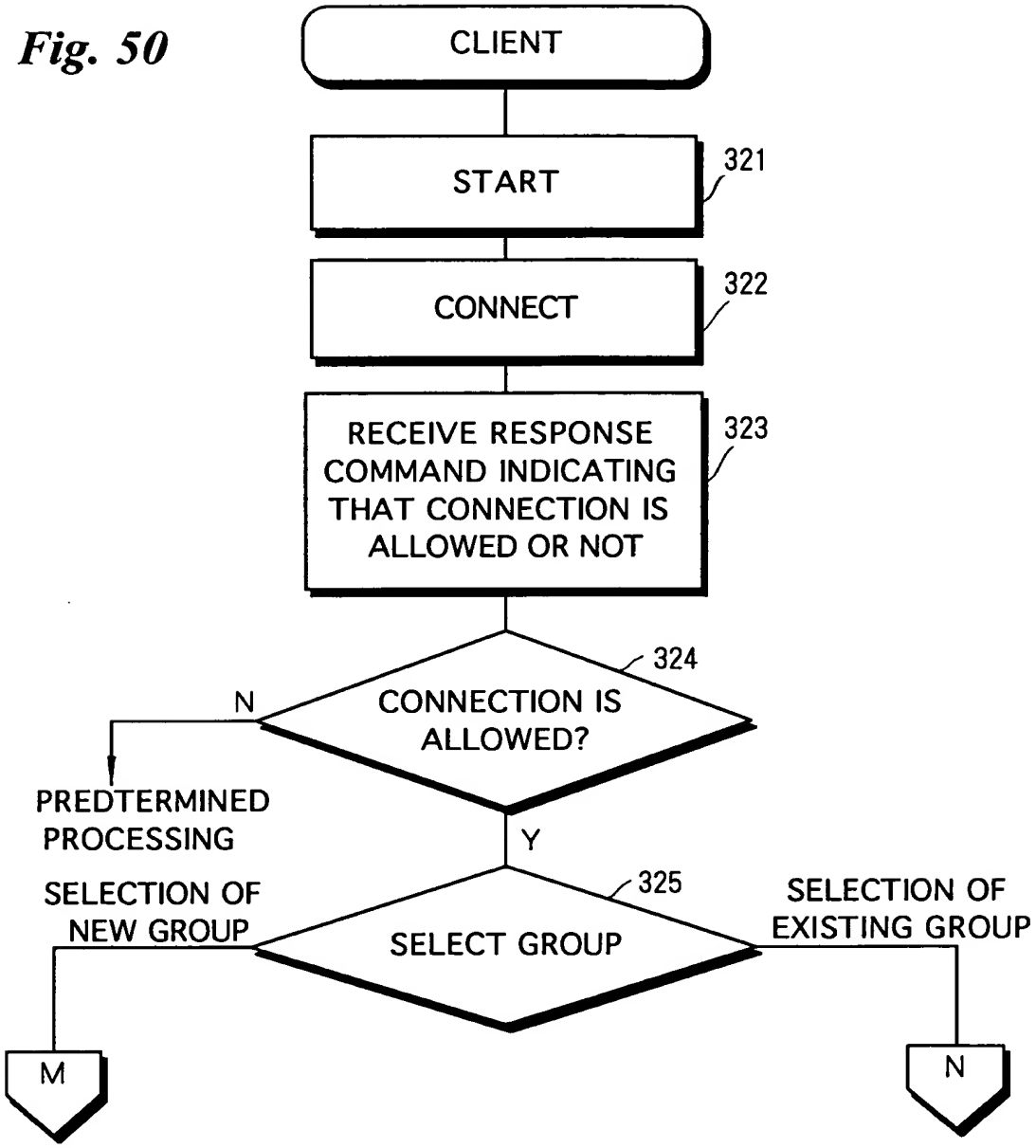

CLIENT
START
321
CONNECT
322
RECEIVE RESPONSE COMMAND INDICATING THAT CONNECTION IS ALLOWED OR NOT
323
CONNECTION IS ALLOWED?
324
N
PREDTERMINED PROCESSING
Y
SELECT GROUP
325
SELECTION OF NEW GROUP
SELECTION OF EXISTING GROUP
M
N

Fig. 51

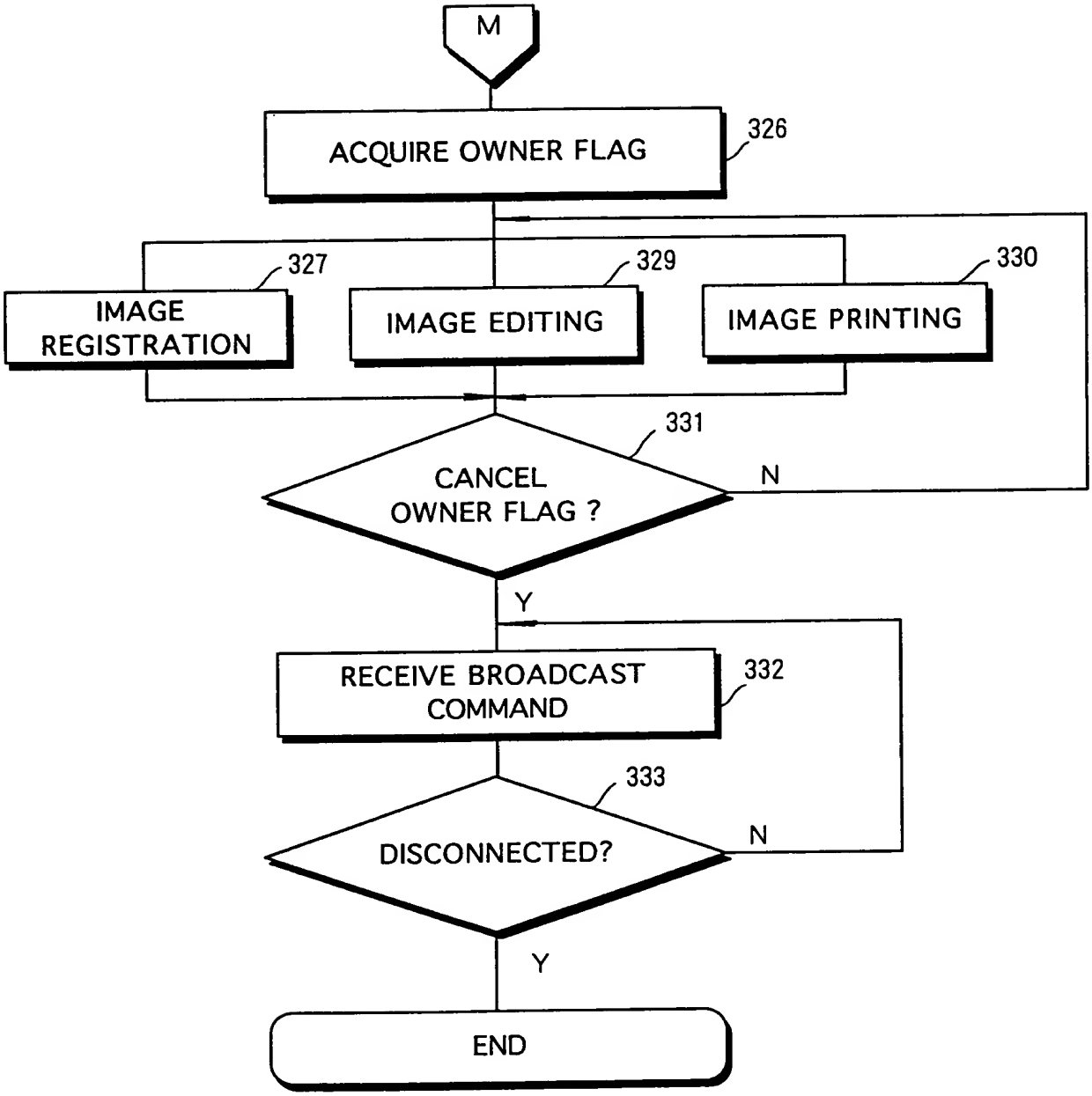

M
ACQUIRE OWNER FLAG
326
IMAGE REGISTRATION
327
IMAGE EDITING
329
IMAGE PRINTING
330
CANCEL OWNER FLAG ?
331
N
Y
RECEIVE BROADCAST COMMAND
332
DISCONNECTED?
333
N
Y
END

Fig. 52

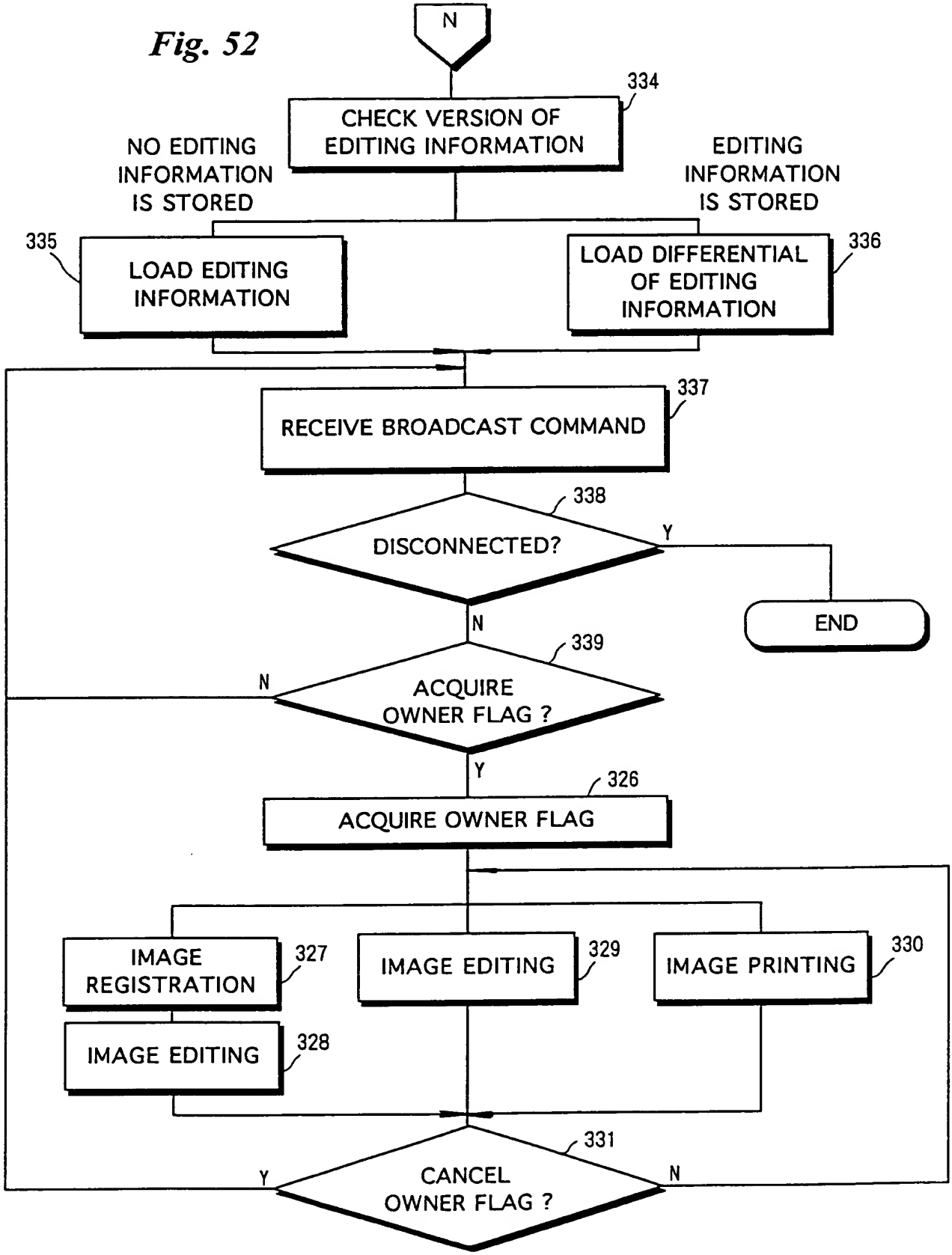

N
334
CHECK VERSION OF EDITING INFORMATION
NO EDITING INFORMATION IS STORED
EDITING INFORMATION IS STORED
335
LOAD EDITING INFORMATION
336
LOAD DIFFERENTIAL OF EDITING INFORMATION
337
RECEIVE BROADCAST COMMAND
338
DISCONNECTED?
Y
END
N
339
N
ACQUIRE OWNER FLAG ?
Y
326
ACQUIRE OWNER FLAG
IMAGE REGISTRATION
327
IMAGE EDITING
329
IMAGE PRINTING
330
IMAGE EDITING
328
331
Y
CANCEL OWNER FLAG ?
N

Fig. 53

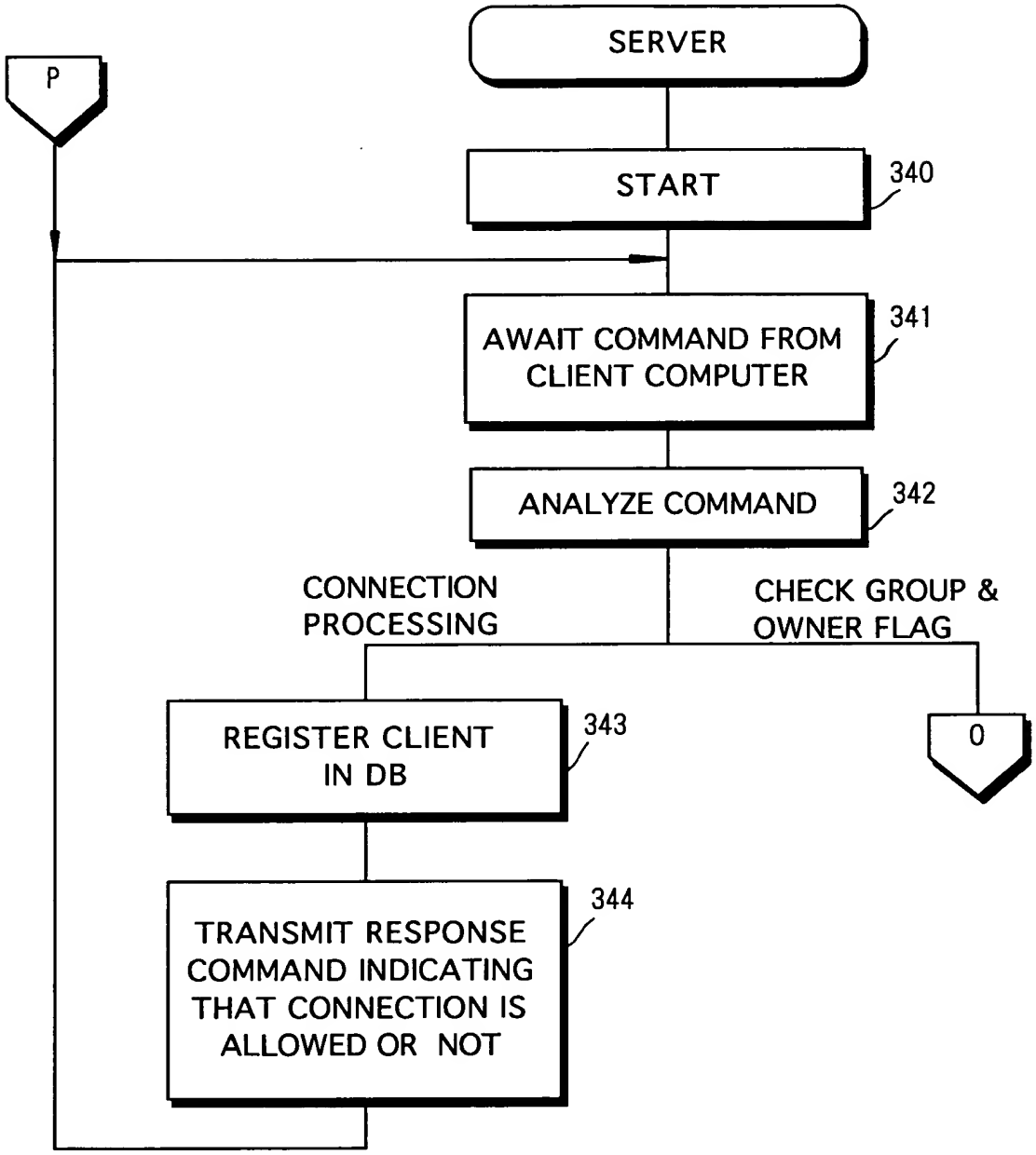

SERVER
P
START
340
AWAIT COMMAND FROM CLIENT COMPUTER
341
ANALYZE COMMAND
342
CONNECTION PROCESSING
CHECK GROUP & OWNER FLAG
REGISTER CLIENT IN DB
343
0
TRANSMIT RESPONSE COMMAND INDICATING THAT CONNECTION IS ALLOWED OR NOT
344

Fig. 54

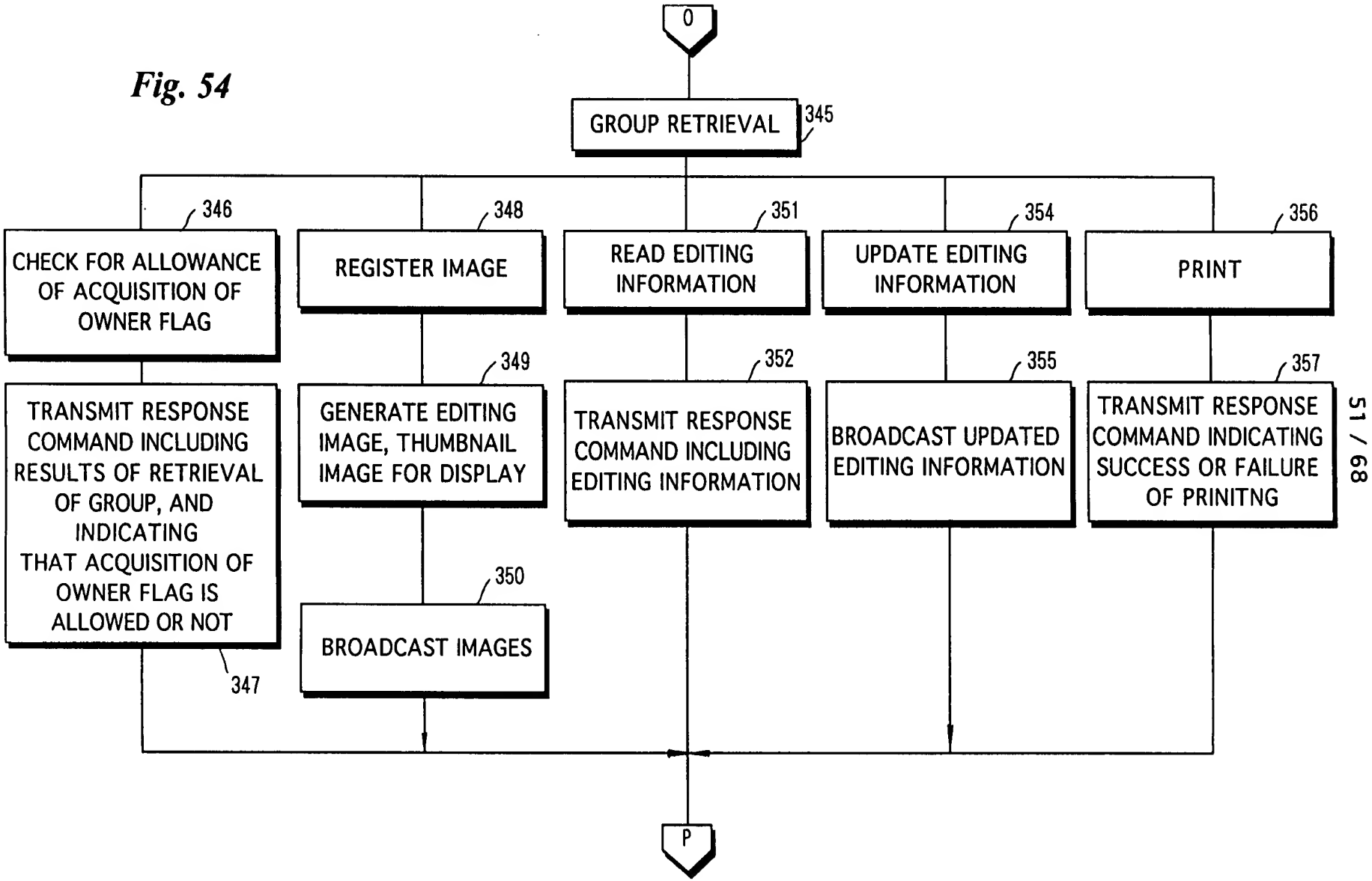

0
GROUP RETRIEVAL
345
346
CHECK FOR ALLOWANCE OF ACQUISITION OF OWNER FLAG
348
REGISTER IMAGE
351
READ EDITING INFORMATION
354
UPDATE EDITING INFORMATION
356
PRINT
TRANSMIT RESPONSE COMMAND INCLUDING RESULTS OF RETRIEVAL OF GROUP, AND INDICATING THAT ACQUISITION OF OWNER FLAG IS ALLOWED OR NOT
347
349
GENERATE EDITING IMAGE, THUMBNAIL IMAGE FOR DISPLAY
350
BROADCAST IMAGES
352
TRANSMIT RESPONSE COMMAND INCLUDING EDITING INFORMATION
355
BROADCAST UPDATED EDITING INFORMATION
357
TRANSMIT RESPONSE COMMAND INDICATING SUCCESS OR FAILURE OF PRINITNG
P

Fig. 55

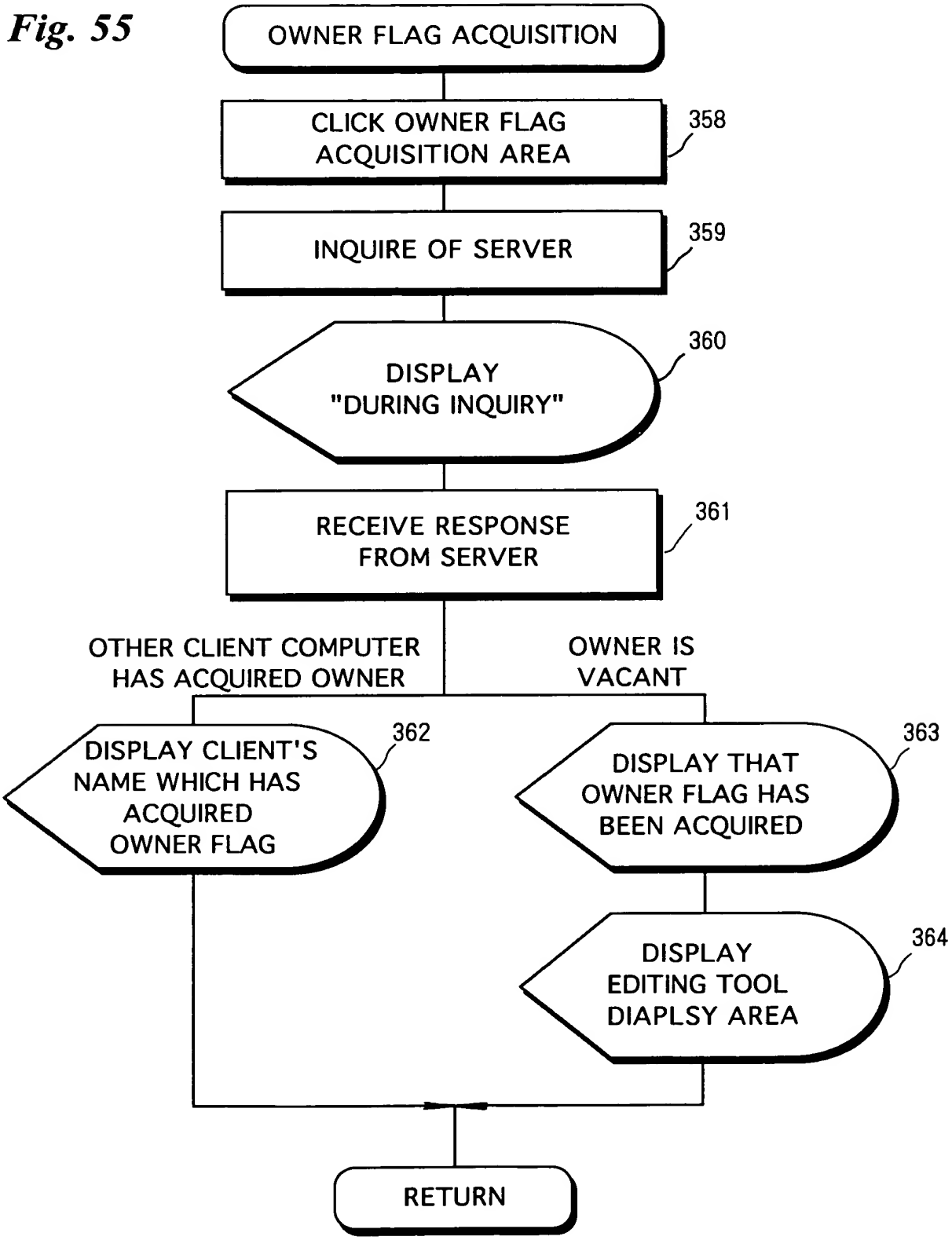

OWNER FLAG ACQUISITION
CLICK OWNER FLAG ACQUISITION AREA
358
INQUIRE OF SERVER
359
DISPLAY "DURING INQUIRY"
360
RECEIVE RESPONSE FROM SERVER
361
OTHER CLIENT COMPUTER HAS ACQUIRED OWNER
OWNER IS VACANT
DISPLAY CLIENT'S NAME WHICH HAS ACQUIRED OWNER FLAG
362
DISPLAY THAT OWNER FLAG HAS BEEN ACQUIRED
363
DISPLAY EDITING TOOL DIAPLSY AREA
364
RETURN

Fig. 56

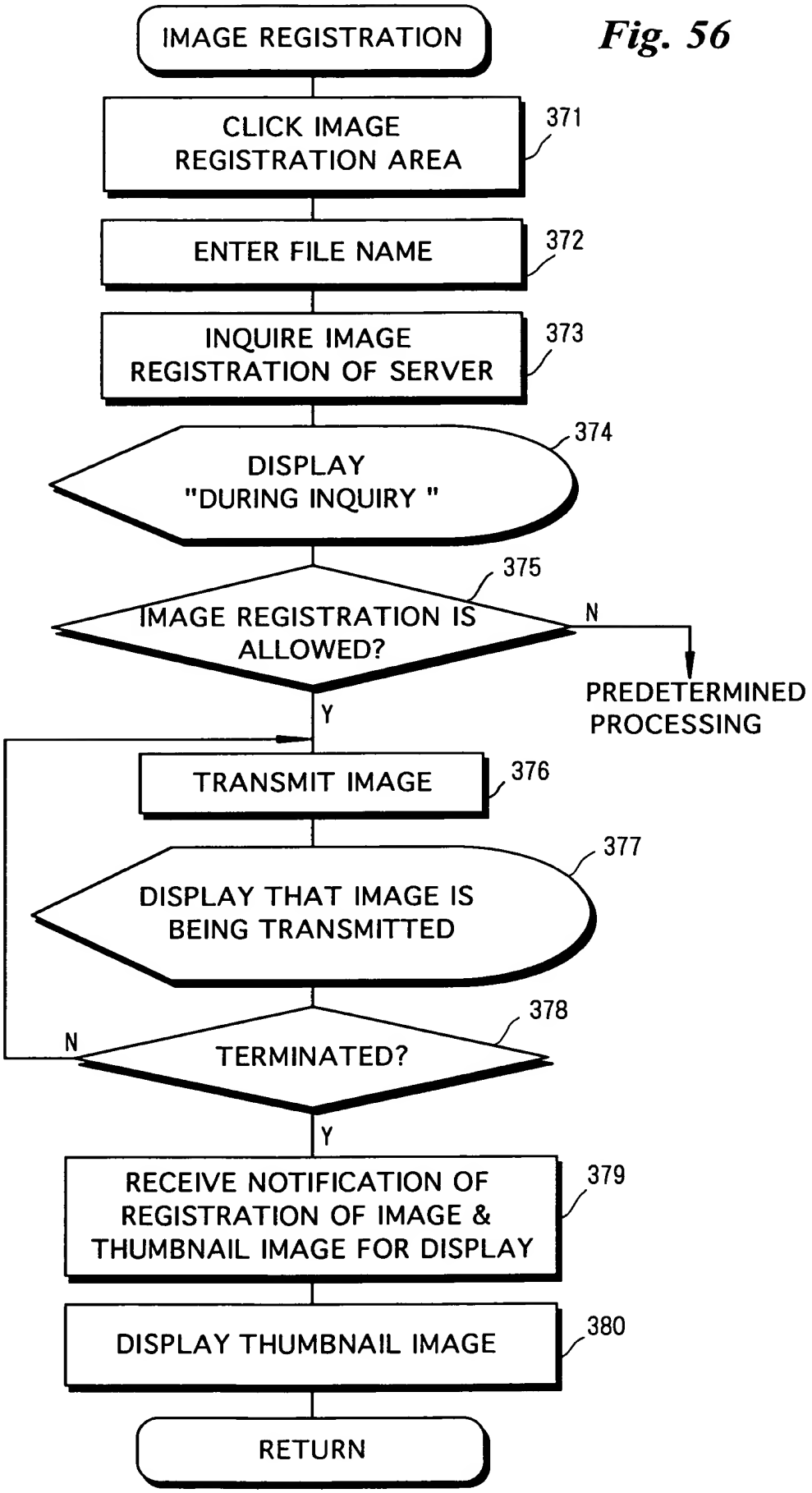


IMAGE REGISTRATION
CLICK IMAGE REGISTRATION AREA
371
ENTER FILE NAME
372
INQUIRE IMAGE REGISTRATION OF SERVER
373
DISPLAY "DURING INQUIRY "
374
IMAGE REGISTRATION IS ALLOWED?
375
N
PREDETERMINED PROCESSING
Y
TRANSMIT IMAGE
376
DISPLAY THAT IMAGE IS BEING TRANSMITTED
377
TERMINATED?
378
N
Y
RECEIVE NOTIFICATION OF REGISTRATION OF IMAGE & THUMBNAIL IMAGE FOR DISPLAY
379
DISPLAY THUMBNAIL IMAGE
380
RETURN

Fig. 57

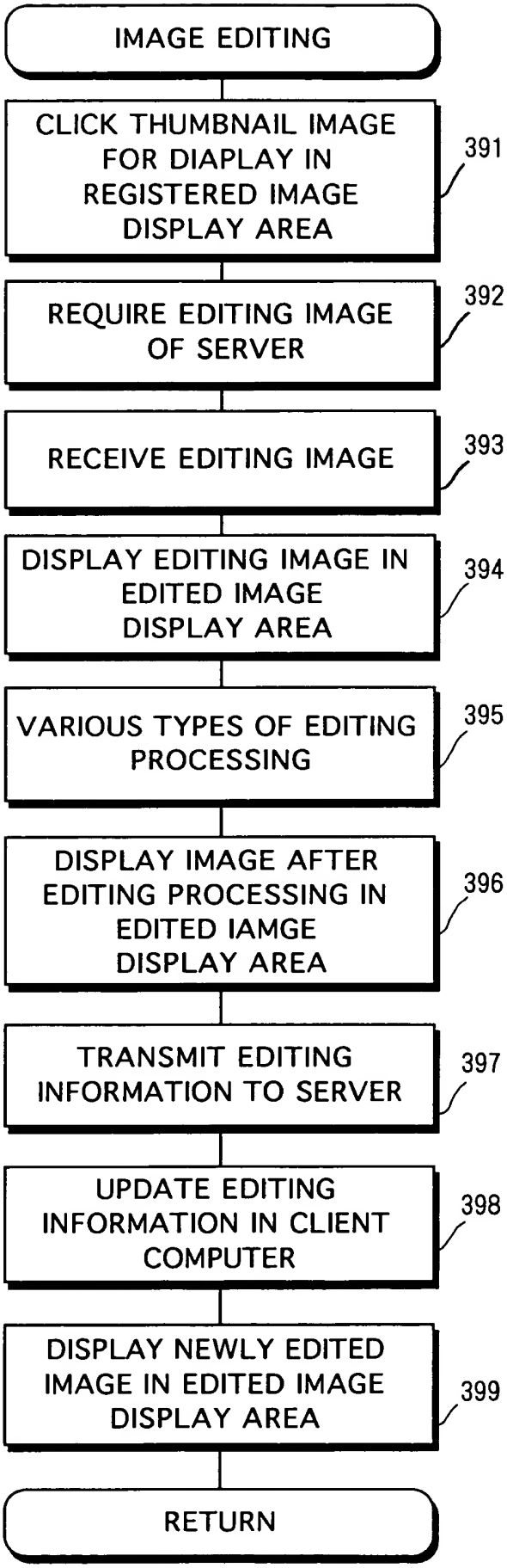


IMAGE EDITING
CLICK THUMBNAIL IMAGE FOR DIAPLAY IN REGISTERED IMAGE DISPLAY AREA
391
REQUIRE EDITING IMAGE OF SERVER
392
RECEIVE EDITING IMAGE
393
DISPLAY EDITING IMAGE IN EDITED IMAGE DISPLAY AREA
394
VARIOUS TYPES OF EDITING PROCESSING
395
DISPLAY IMAGE AFTER EDITING PROCESSING IN EDITED IAMGE DISPLAY AREA
396
TRANSMIT EDITING INFORMATION TO SERVER
397
UPDATE EDITING INFORMATION IN CLIENT COMPUTER
398
DISPLAY NEWLY EDITED IMAGE IN EDITED IMAGE DISPLAY AREA
399
RETURN

Fig. 58a

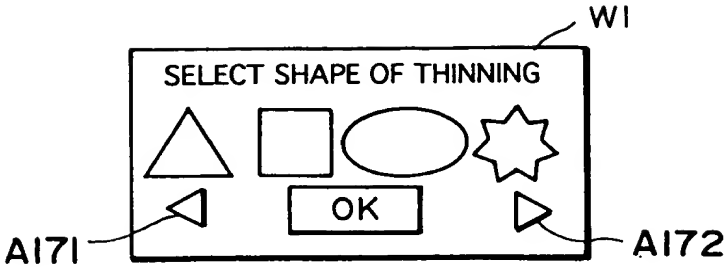


Fig. 58b

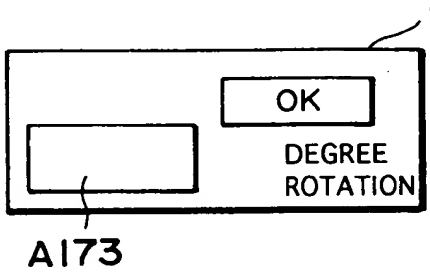


Fig. 58c

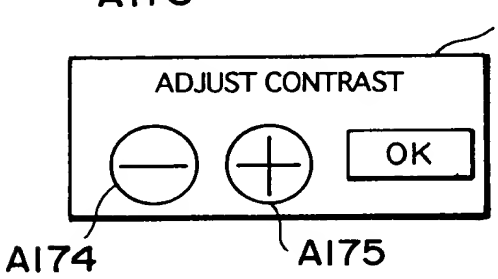


Fig. 58d

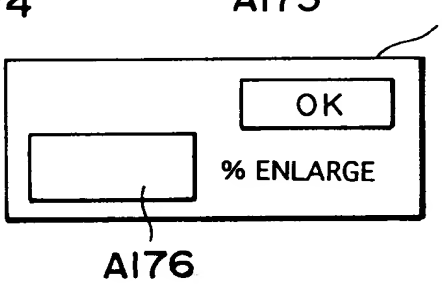


Fig. 58e

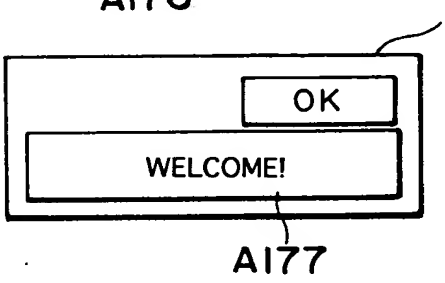


Fig. 58f

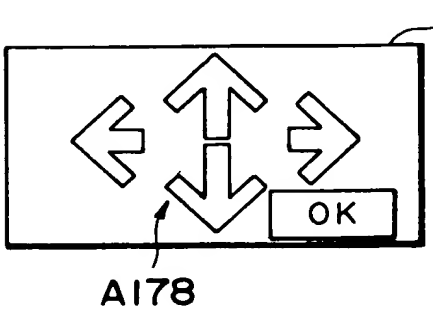


Fig. 59

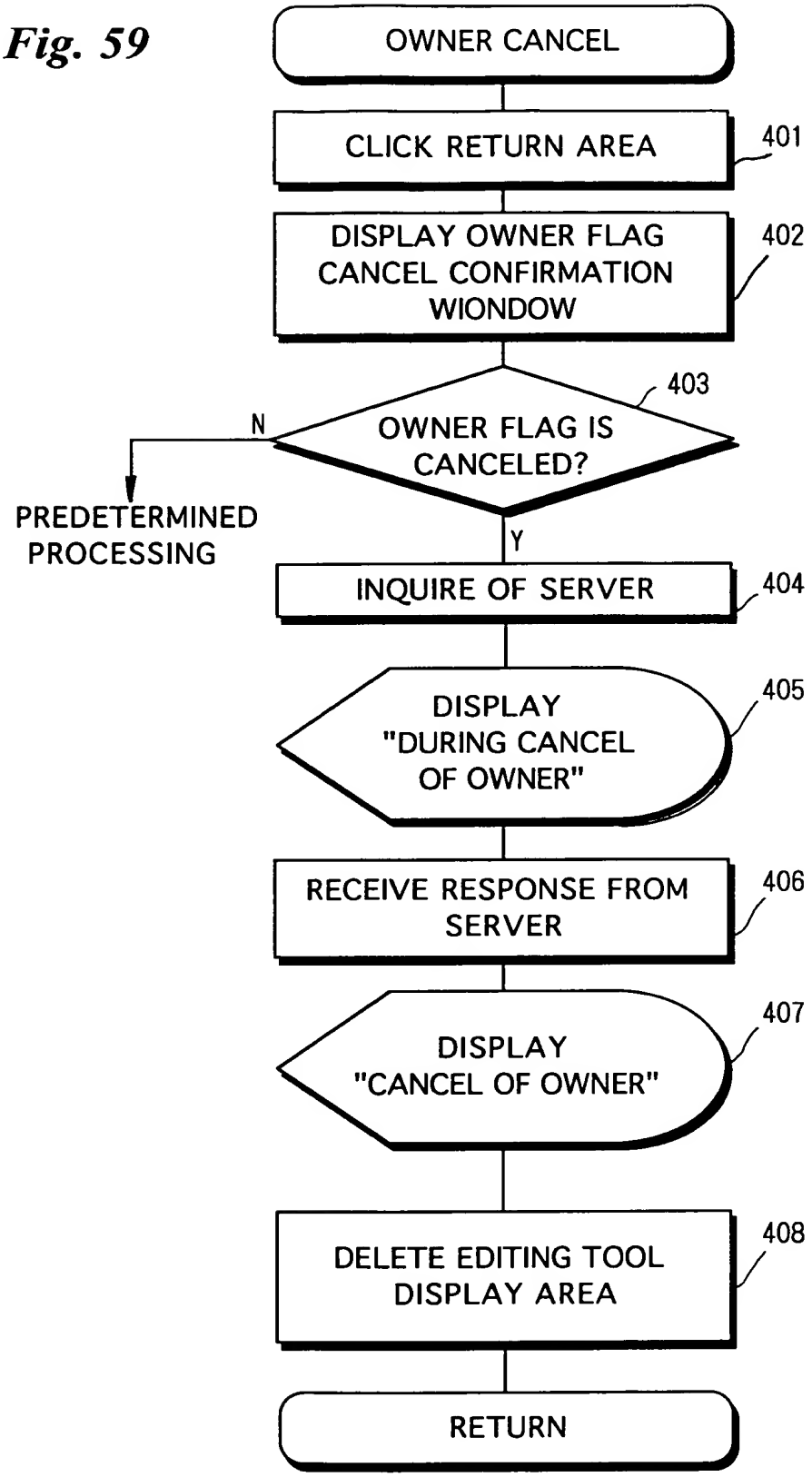

OWNER CANCEL
CLICK RETURN AREA
401
DISPLAY OWNER FLAG CANCEL CONFIRMATION WIONDOW
402
403
OWNER FLAG IS CANCELED?
N
PREDETERMINED PROCESSING
Y
INQUIRE OF SERVER
404
DISPLAY "DURING CANCEL OF OWNER"
405
RECEIVE RESPONSE FROM SERVER
406
DISPLAY "CANCEL OF OWNER"
407
DELETE EDITING TOOL DISPLAY AREA
408
RETURN

Fig. 60

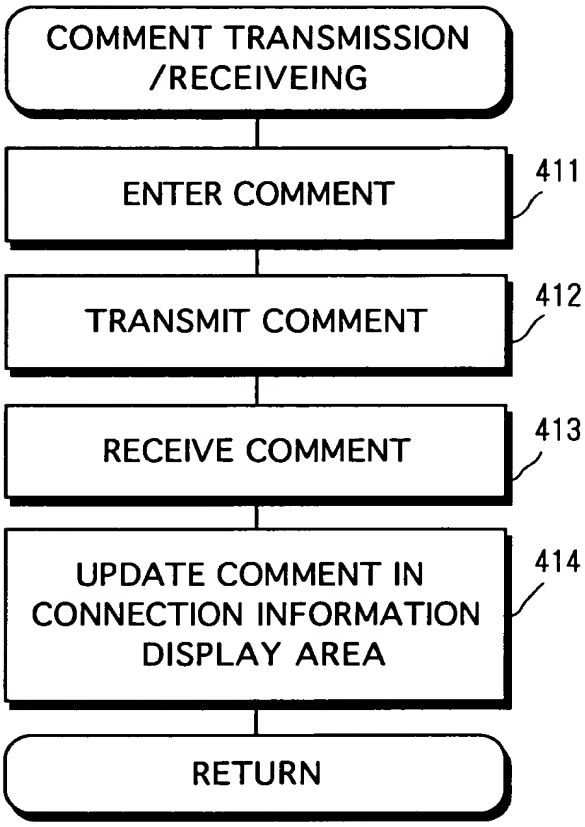

COMMENT TRANSMISSION /RECEIVEING
ENTER COMMENT
411
TRANSMIT COMMENT
412
RECEIVE COMMENT
413
UPDATE COMMENT IN CONNECTION INFORMATION DISPLAY AREA
414
RETURN

Fig. 61

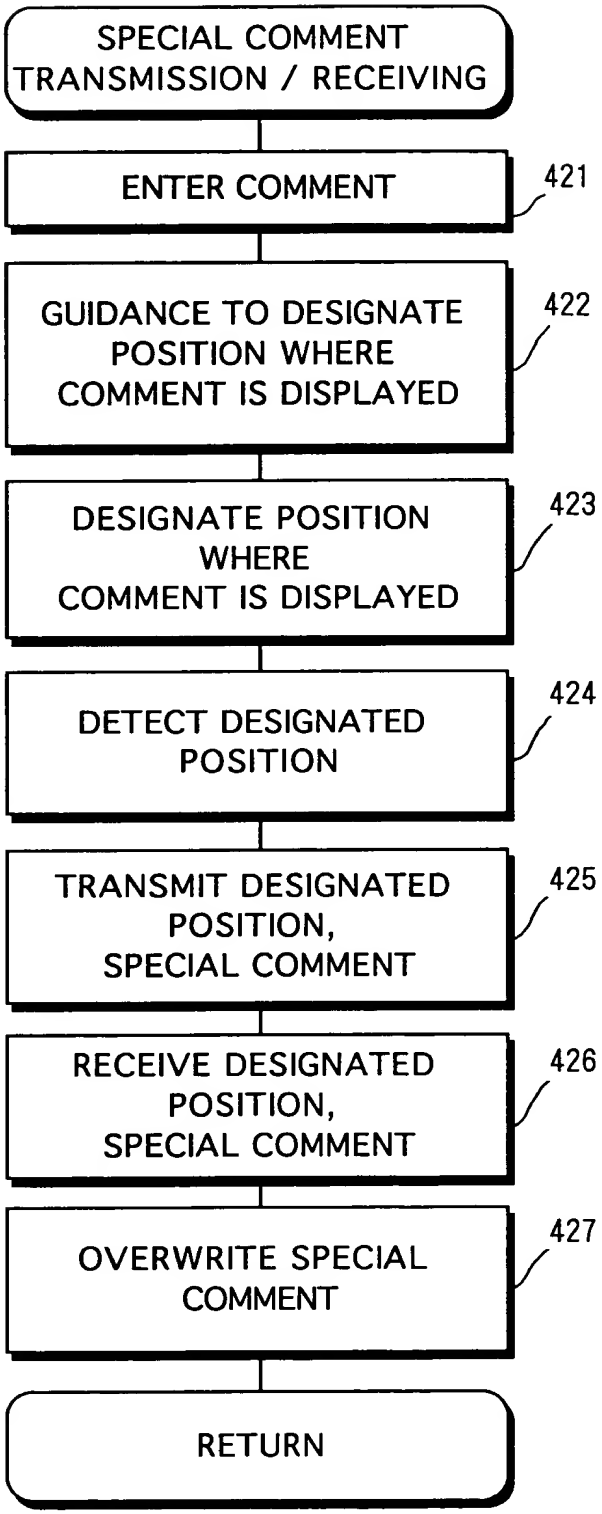

SPECIAL COMMENT TRANSMISSION / RECEIVING
ENTER COMMENT
421
GUIDANCE TO DESIGNATE POSITION WHERE COMMENT IS DISPLAYED
422
DESIGNATE POSITION WHERE COMMENT IS DISPLAYED
423
DETECT DESIGNATED POSITION
424
TRANSMIT DESIGNATED POSITION, SPECIAL COMMENT
425
RECEIVE DESIGNATED POSITION, SPECIAL COMMENT
426
OVERWRITE SPECIAL COMMENT
427
RETURN

Fig. 62

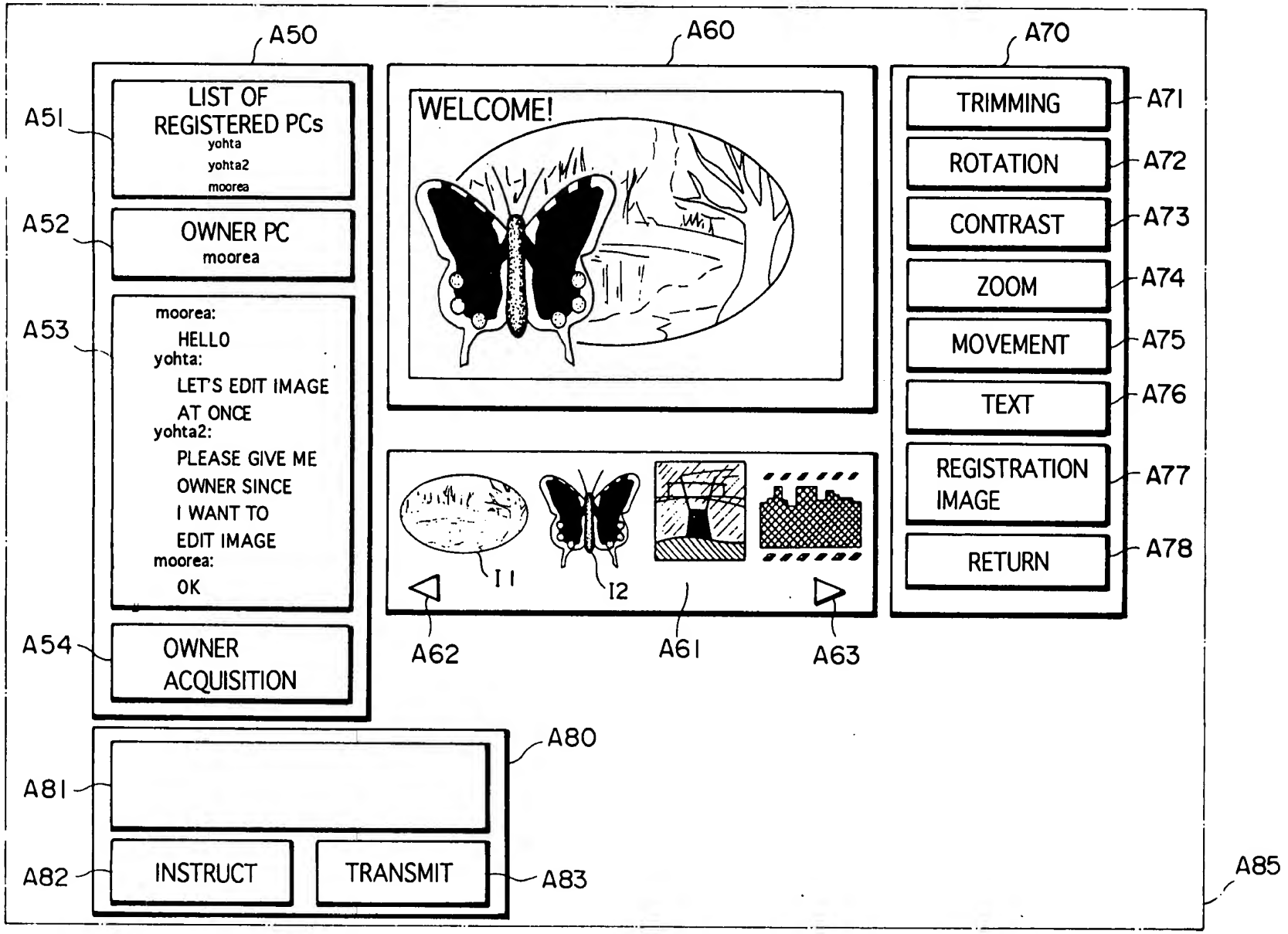

A50
A60
A70
A51
LIST OF REGISTERED PCs
yohta
yohta2
moorea
WELCOME!
TRIMMING
A71
ROTATION
A72
A52
OWNER PC
moorea
CONTRAST
A73
ZOOM
A74
A53
moorea:
HELLO
yohta:
LET'S EDIT IMAGE AT ONCE
yohta2:
PLEASE GIVE ME OWNER SINCE I WANT TO EDIT IMAGE
moorea:
OK
MOVEMENT
A75
TEXT
A76
REGISTRATION IMAGE
A77
RETURN
A78
I1
I2
A54
OWNER ACQUISITION
A62
A61
A63
A80
A81
A82
INSTRUCT
TRANSMIT
A83
A85

Fig. 63

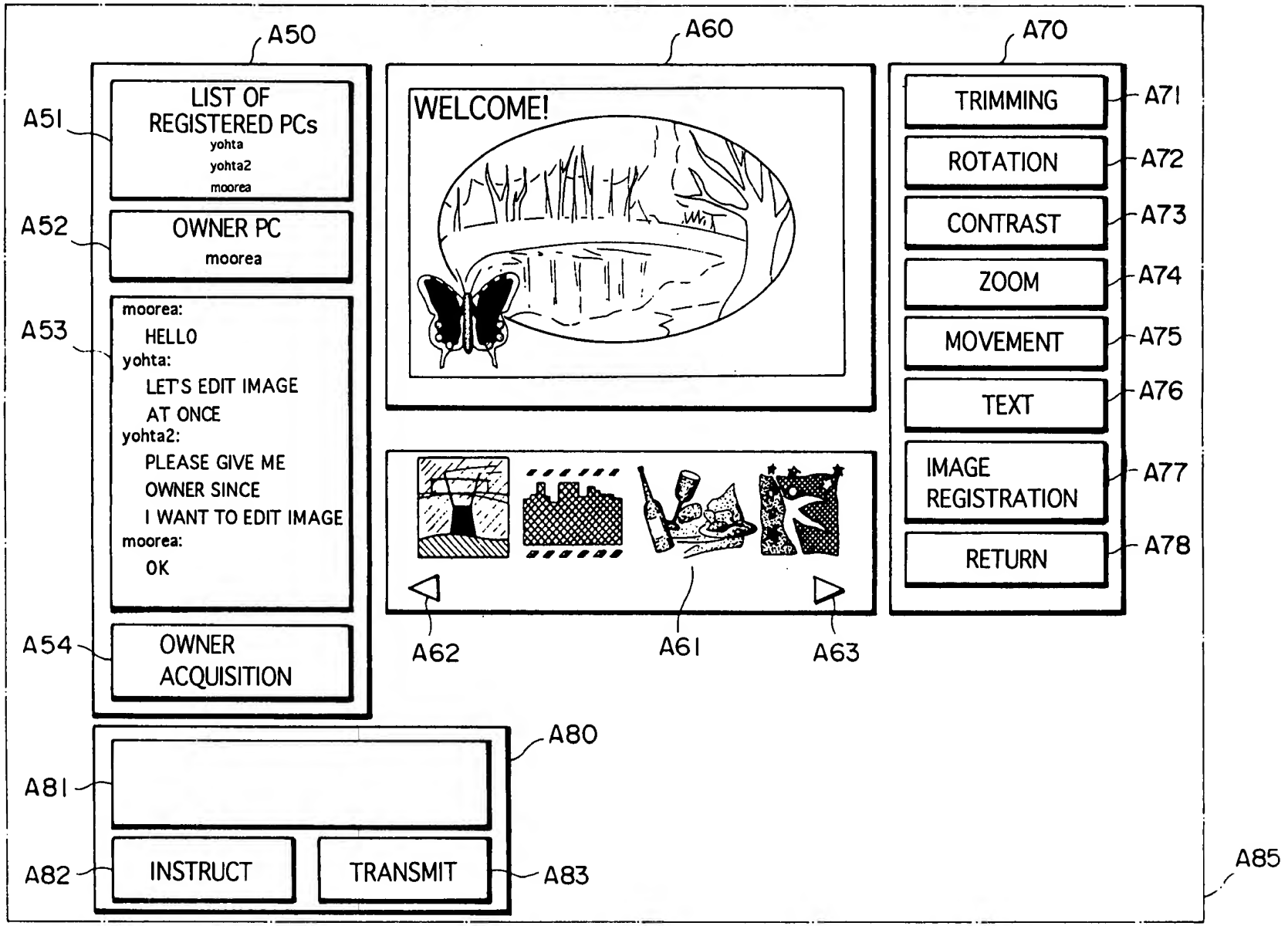
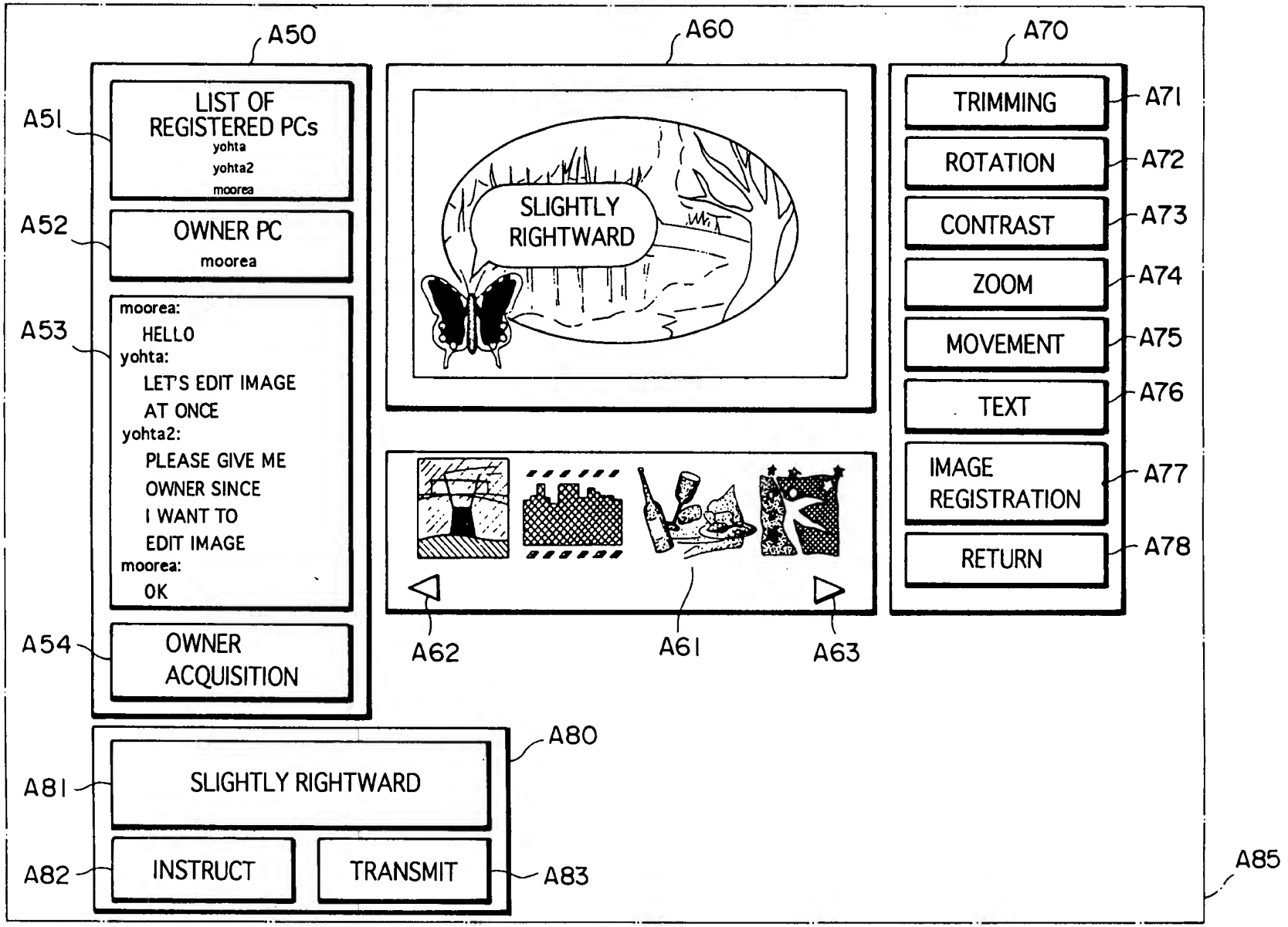

A50
A51
LIST OF REGISTERED PCs
yohta
yohta2
moorea
A52
OWNER PC
moorea
A53
moorea:
HELLO
yohta:
LET'S EDIT IMAGE AT ONCE
yohta2:
PLEASE GIVE ME OWNER SINCE I WANT TO EDIT IMAGE
moorea:
OK
A54
OWNER ACQUISITION
A60
WELCOME!
A61
A62
A63
A70
TRIMMING
A71
ROTATION
A72
CONTRAST
A73
ZOOM
A74
MOVEMENT
A75
TEXT
A76
IMAGE REGISTRATION
A77
RETURN
A78
A80
A81
A82
INSTRUCT
TRANSMIT
A83
A85

Fig. 64


A50
A51
LIST OF REGISTERED PCs
yohta
yohta2
moorea
A52
OWNER PC
moorea
A53
moorea:
HELLO
yohta:
LET'S EDIT IMAGE AT ONCE
yohta2:
PLEASE GIVE ME OWNER SINCE I WANT TO EDIT IMAGE
moorea:
OK
A54
OWNER ACQUISITION
A60
SLIGHTLY RIGHTWARD
A62
A61
A63
A70
TRIMMING
A71
ROTATION
A72
CONTRAST
A73
ZOOM
A74
MOVEMENT
A75
TEXT
A76
IMAGE REGISTRATION
A77
RETURN
A78
A80
A81
SLIGHTLY RIGHTWARD
A82
INSTRUCT
TRANSMIT
A83
A85

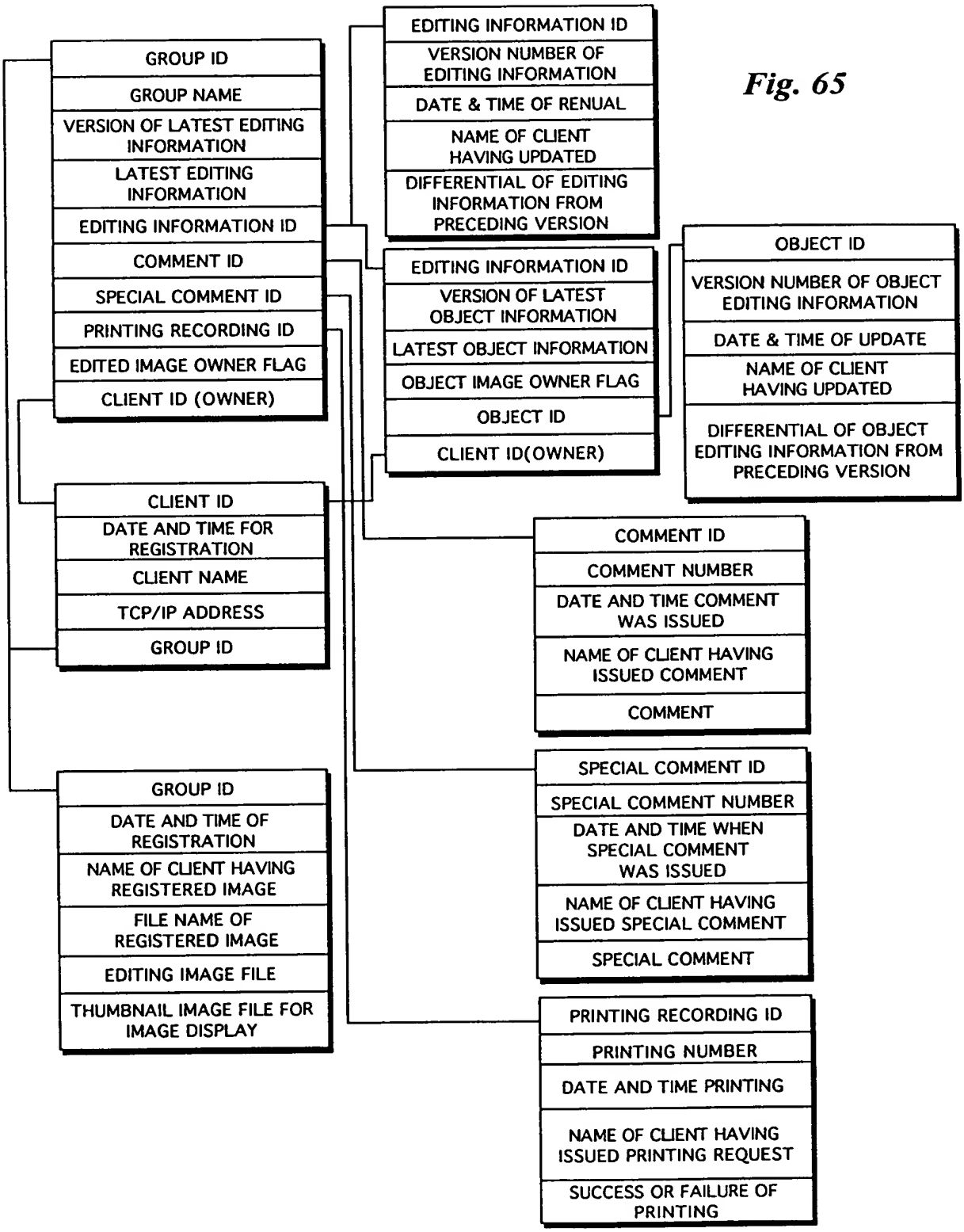

GROUP ID
GROUP NAME
VERSION OF LATEST EDITING INFORMATION
LATEST EDITING INFORMATION
EDITING INFORMATION ID
COMMENT ID
SPECIAL COMMENT ID
PRINTING RECORDING ID
EDITED IMAGE OWNER FLAG
CLIENT ID (OWNER)
EDITING INFORMATION ID
VERSION NUMBER OF EDITING INFORMATION
DATE & TIME OF RENUAL
NAME OF CLIENT HAVING UPDATED
DIFFERENTIAL OF EDITING INFORMATION FROM PRECEDING VERSION
EDITING INFORMATION ID
VERSION OF LATEST OBJECT INFORMATION
LATEST OBJECT INFORMATION
OBJECT IMAGE OWNER FLAG
OBJECT ID
CLIENT ID(OWNER)
OBJECT ID
VERSION NUMBER OF OBJECT EDITING INFORMATION
DATE & TIME OF UPDATE
NAME OF CLIENT HAVING UPDATED
DIFFERENTIAL OF OBJECT EDITING INFORMATION FROM PRECEDING VERSION
CLIENT ID
DATE AND TIME FOR REGISTRATION
CLIENT NAME
TCP/IP ADDRESS
GROUP ID
COMMENT ID
COMMENT NUMBER
DATE AND TIME COMMENT WAS ISSUED
NAME OF CLIENT HAVING ISSUED COMMENT
COMMENT
GROUP ID
DATE AND TIME OF REGISTRATION
NAME OF CLIENT HAVING REGISTERED IMAGE
FILE NAME OF REGISTERED IMAGE
EDITING IMAGE FILE
THUMBNAIL IMAGE FILE FOR IMAGE DISPLAY
SPECIAL COMMENT ID
SPECIAL COMMENT NUMBER
DATE AND TIME WHEN SPECIAL COMMENT WAS ISSUED
NAME OF CLIENT HAVING ISSUED SPECIAL COMMENT
SPECIAL COMMENT
PRINTING RECORDING ID
PRINTING NUMBER
DATE AND TIME PRINTING
NAME OF CLIENT HAVING ISSUED PRINTING REQUEST
SUCCESS OR FAILURE OF PRINTING

Fig. 65

Fig. 66

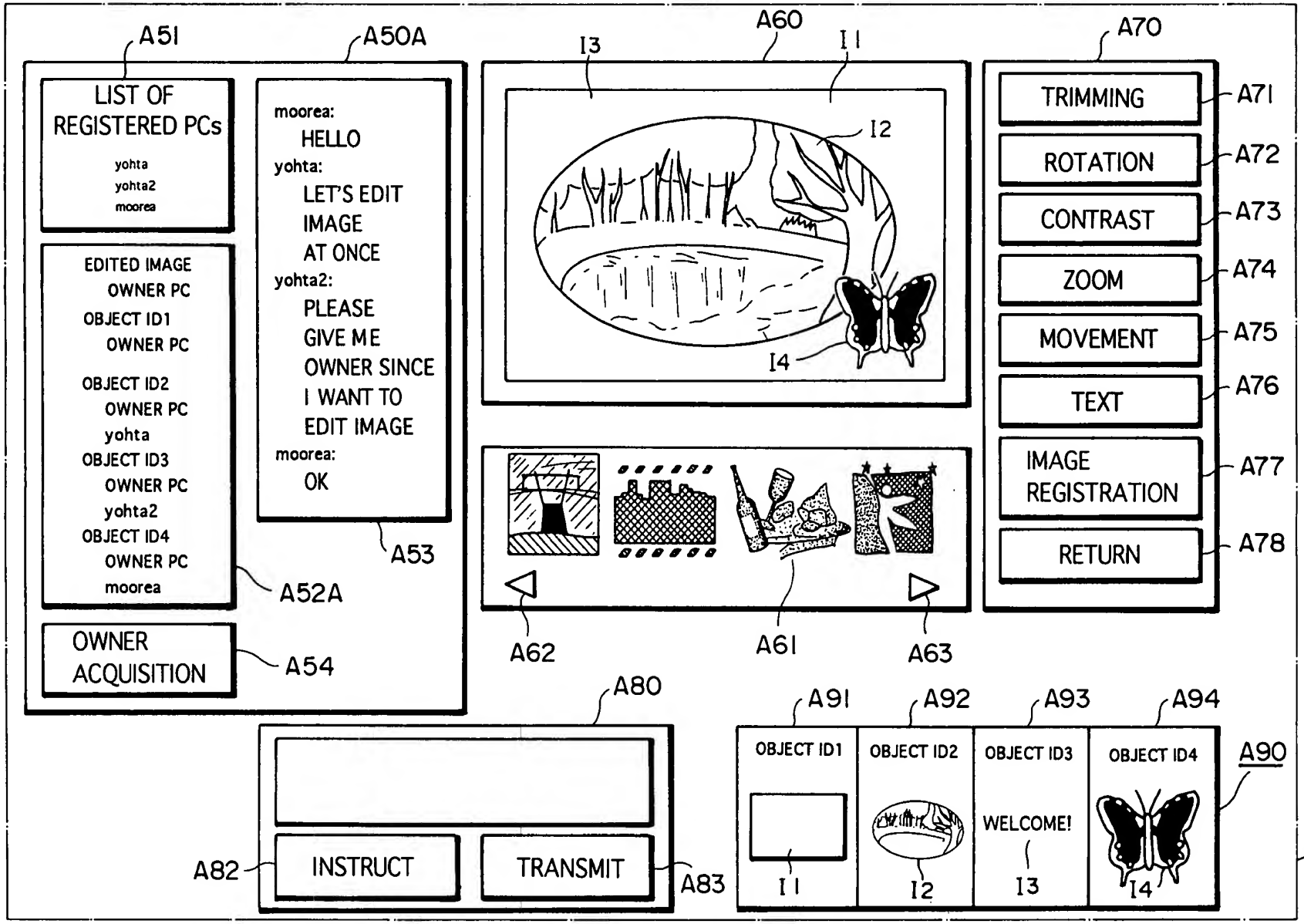

A51
A50A
A60
A70
LIST OF REGISTERED PCs
yohta
yohta2
moorea
moorea:
HELLO
yohta:
LET'S EDIT IMAGE AT ONCE
yohta2:
PLEASE GIVE ME OWNER SINCE I WANT TO EDIT IMAGE
moorea:
OK
A53
EDITED IMAGE OWNER PC
OBJECT ID1 OWNER PC
OBJECT ID2 OWNER PC yohta
OBJECT ID3 OWNER PC yohta2
OBJECT ID4 OWNER PC moorea
A52A
OWNER ACQUISITION
A54
I3
I1
I2
I4
A62
A61
A63
TRIMMING
ROTATION
CONTRAST
ZOOM
MOVEMENT
TEXT
IMAGE REGISTRATION
RETURN
A71
A72
A73
A74
A75
A76
A77
A78
A80
INSTRUCT
TRANSMIT
A82
A83
A91
A92
A93
A94
A90
A85
OBJECT ID1
OBJECT ID2
OBJECT ID3
OBJECT ID4
WELCOME!
I1
I2
I3
I4

Fig. 67

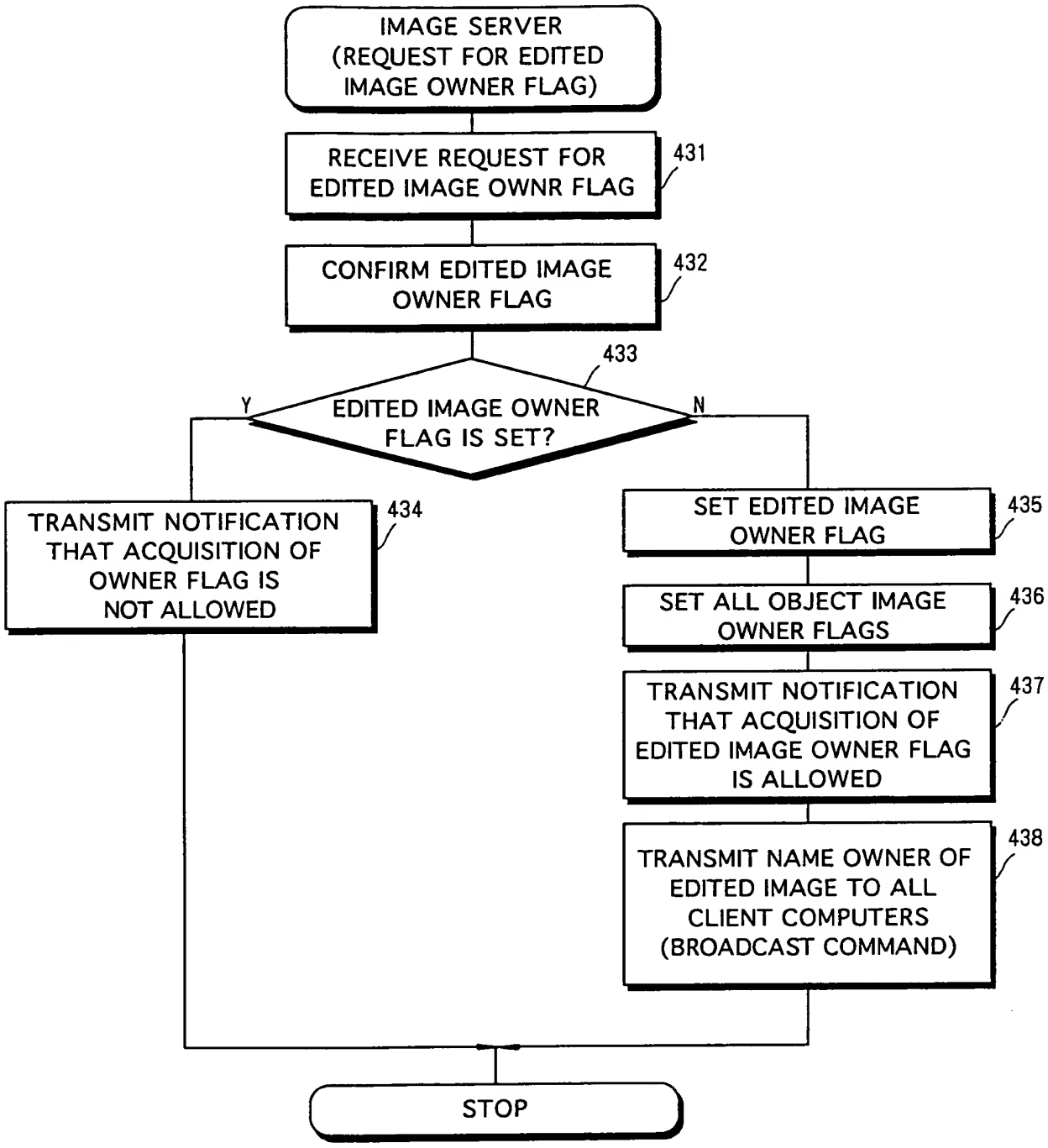


IMAGE SERVER (REQUEST FOR EDITED IMAGE OWNER FLAG)
RECEIVE REQUEST FOR EDITED IMAGE OWNR FLAG
431
CONFIRM EDITED IMAGE OWNER FLAG
432
433
EDITED IMAGE OWNER FLAG IS SET?
Y
N
TRANSMIT NOTIFICATION THAT ACQUISITION OF OWNER FLAG IS NOT ALLOWED
434
SET EDITED IMAGE OWNER FLAG
435
SET ALL OBJECT IMAGE OWNER FLAGS
436
TRANSMIT NOTIFICATION THAT ACQUISITION OF EDITED IMAGE OWNER FLAG IS ALLOWED
437
TRANSMIT NAME OWNER OF EDITED IMAGE TO ALL CLIENT COMPUTERS (BROADCAST COMMAND)
438
STOP

Fig. 68

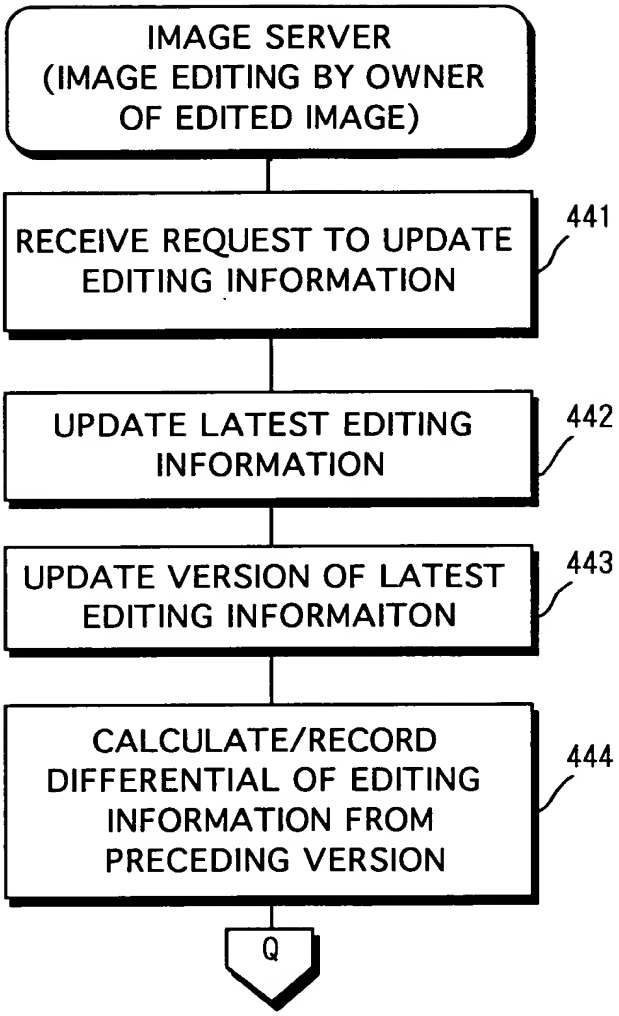


IMAGE SERVER
(IMAGE EDITING BY OWNER OF EDITED IMAGE)
RECEIVE REQUEST TO UPDATE EDITING INFORMATION
441
UPDATE LATEST EDITING INFORMATION
442
UPDATE VERSION OF LATEST EDITING INFORMAITON
443
CALCULATE/RECORD DIFFERENTIAL OF EDITING INFORMATION FROM PRECEDING VERSION
444
Q

Fig. 69

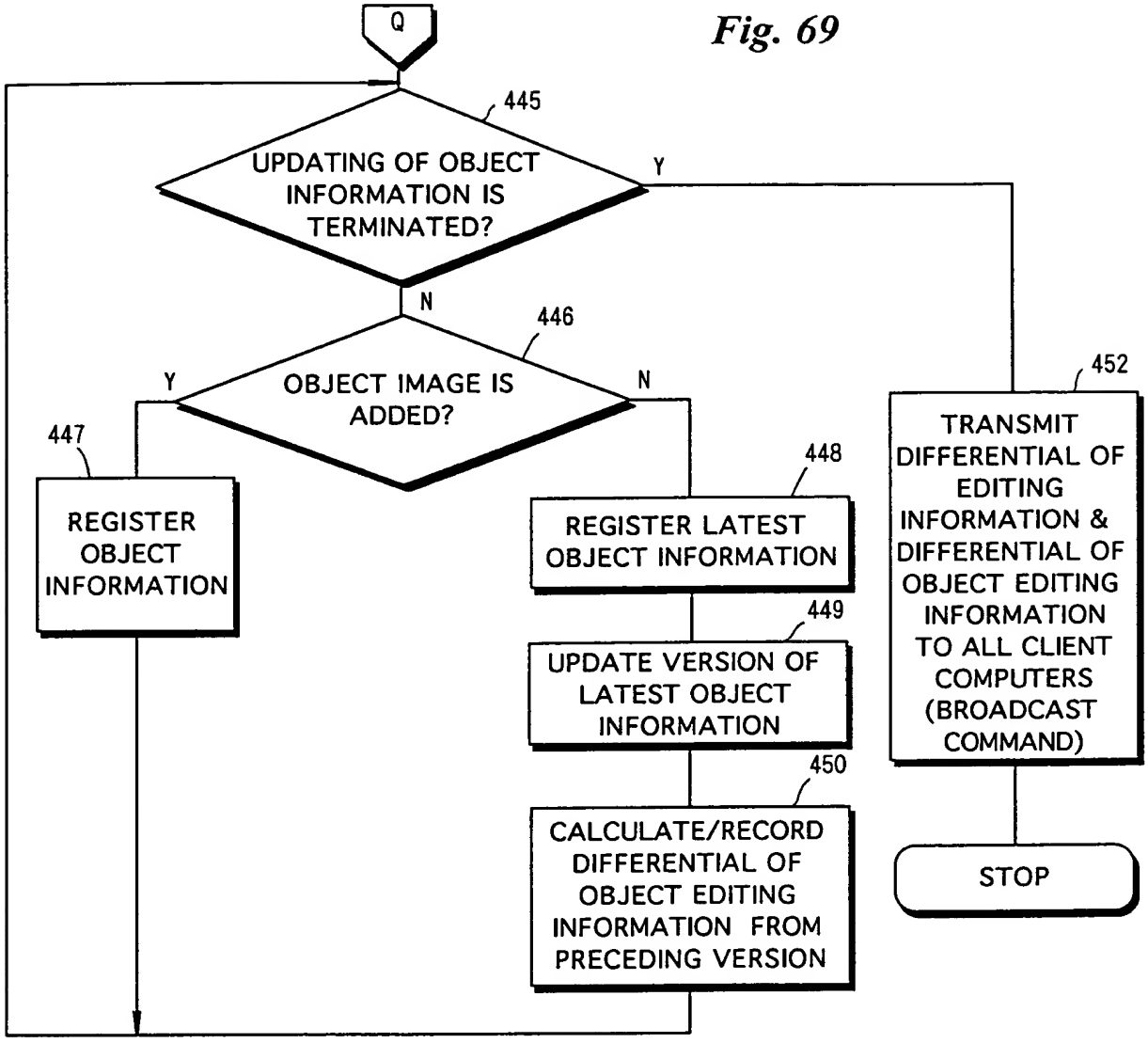

Q
445
UPDATING OF OBJECT INFORMATION IS TERMINATED?
Y
N
446
OBJECT IMAGE IS ADDED?
Y
N
447
REGISTER OBJECT INFORMATION
448
REGISTER LATEST OBJECT INFORMATION
449
UPDATE VERSION OF LATEST OBJECT INFORMATION
450
CALCULATE/RECORD DIFFERENTIAL OF OBJECT EDITING INFORMATION FROM PRECEDING VERSION
452
TRANSMIT DIFFERENTIAL OF EDITING INFORMATION & DIFFERENTIAL OF OBJECT EDITING INFORMATION TO ALL CLIENT COMPUTERS (BROADCAST COMMAND)
STOP

Fig. 70

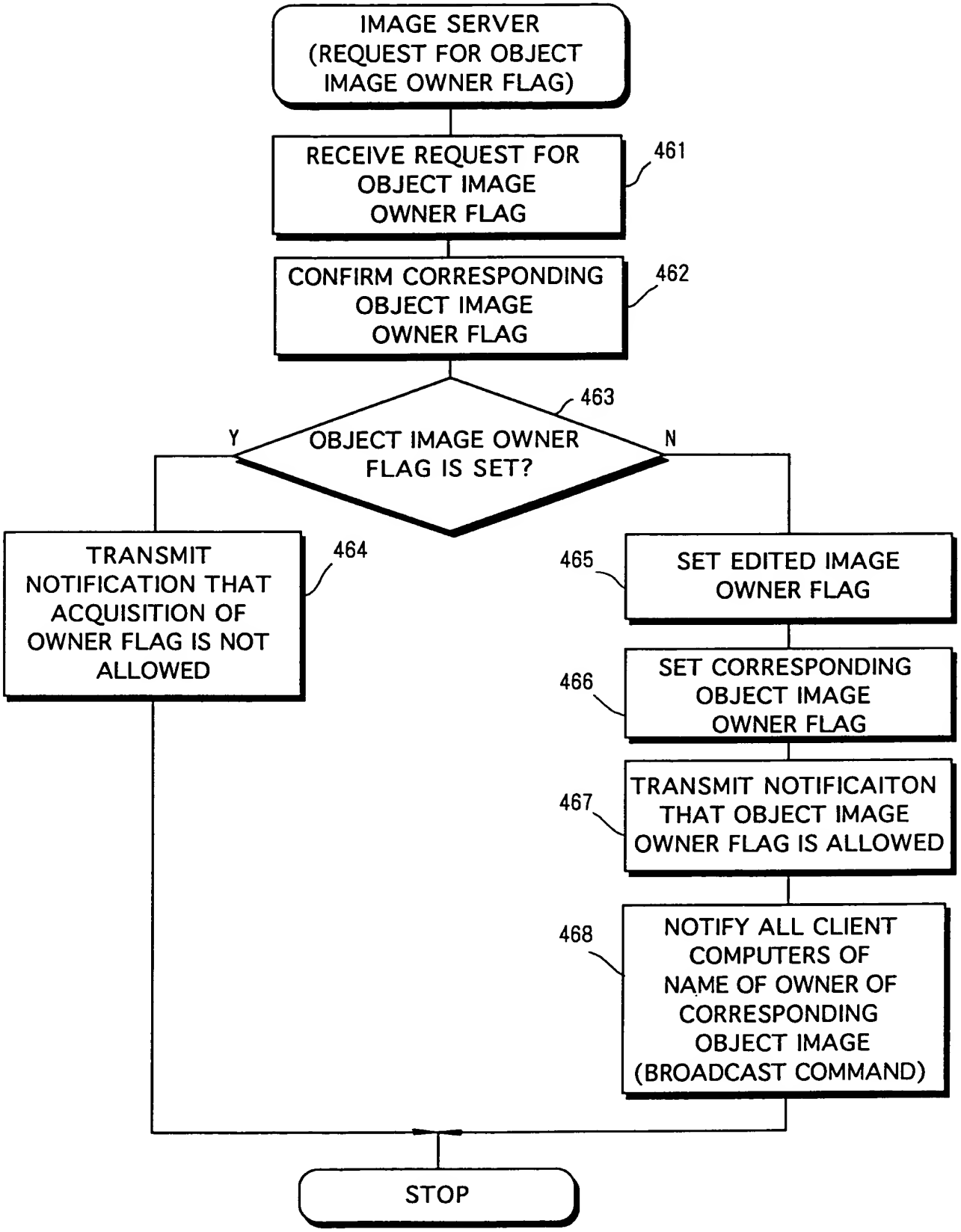


IMAGE SERVER (REQUEST FOR OBJECT IMAGE OWNER FLAG)
RECEIVE REQUEST FOR OBJECT IMAGE OWNER FLAG
461
CONFIRM CORRESPONDING OBJECT IMAGE OWNER FLAG
462
OBJECT IMAGE OWNER FLAG IS SET?
463
Y
N
TRANSMIT NOTIFICATION THAT ACQUISITION OF OWNER FLAG IS NOT ALLOWED
464
SET EDITED IMAGE OWNER FLAG
465
SET CORRESPONDING OBJECT IMAGE OWNER FLAG
466
TRANSMIT NOTIFICAITON THAT OBJECT IMAGE OWNER FLAG IS ALLOWED
467
NOTIFY ALL CLIENT COMPUTERS OF NAME OF OWNER OF CORRESPONDING OBJECT IMAGE (BROADCAST COMMAND)
468
STOP

Fig. 71

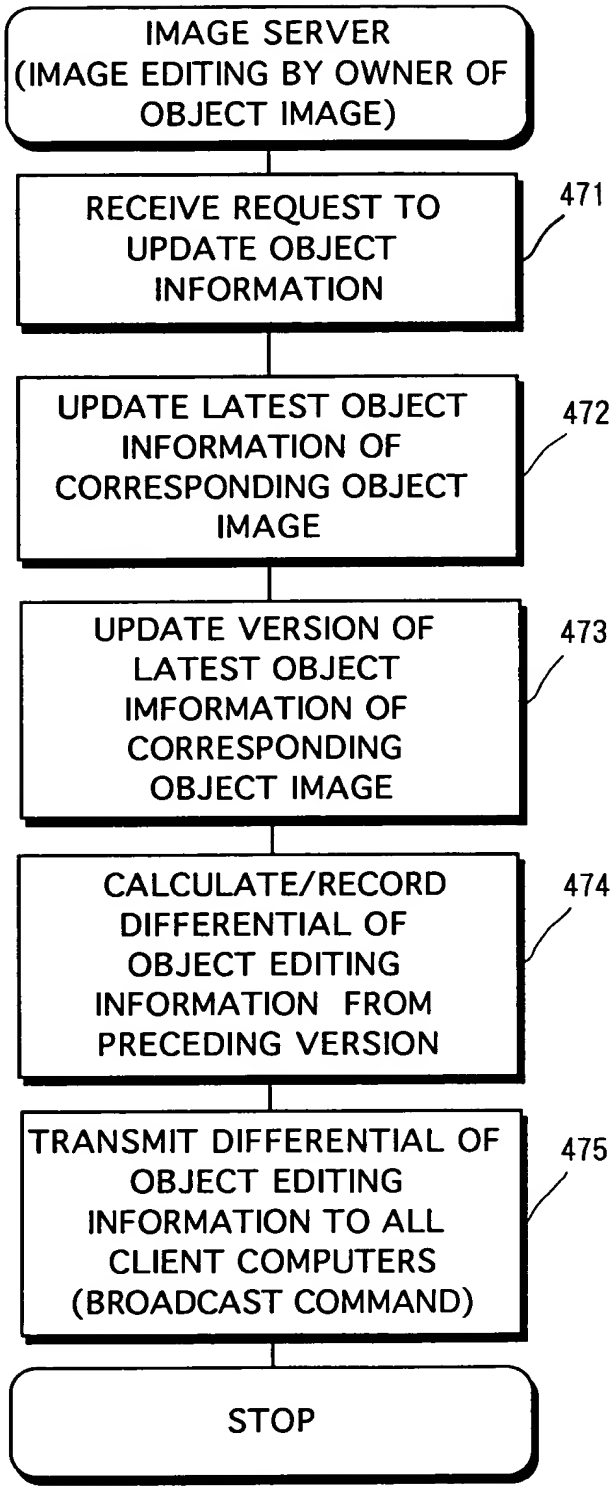


IMAGE SERVER (IMAGE EDITING BY OWNER OF OBJECT IMAGE)
RECEIVE REQUEST TO UPDATE OBJECT INFORMATION
471
UPDATE LATEST OBJECT INFORMATION OF CORRESPONDING OBJECT IMAGE
472
UPDATE VERSION OF LATEST OBJECT IMFORMATION OF CORRESPONDING OBJECT IMAGE
473
CALCULATE/RECORD DIFFERENTIAL OF OBJECT EDITING INFORMATION FROM PRECEDING VERSION
474
TRANSMIT DIFFERENTIAL OF OBJECT EDITING INFORMATION TO ALL CLIENT COMPUTERS (BROADCAST COMMAND)
475
STOP

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